



# SCIENCE

Library of Congress  
Classification



1996

EDITION

## LIBRARY OF CONGRESS CLASSIFICATION SCHEDULES

For sale by the Library of Congress,  
Cataloging Distribution Service,  
Washington, DC 20541,  
to which inquiries on current availability and  
price should be addressed.

<b>A</b>	General Works
<b>B-BJ</b>	Philosophy. Psychology
<b>BL, BM, BP, BQ</b>	Religion: Religions, Hinduism, Judaism, Islam, Buddhism
<b>BR-BV</b>	Religion: Christianity, Bible
<b>BX</b>	Religion: Christian Denominations
<b>C</b>	Auxiliary Sciences of History
<b>D-DJ</b>	History (General), History of Europe, Part 1
<b>DJK-DK</b>	History of Eastern Europe (General). Soviet Union, Poland
<b>DL-DR</b>	History of Europe, Part 2
<b>DS</b>	History of Asia
<b>DT-DX</b>	History of Africa, Australia, New Zealand, etc.
<b>E-F</b>	History: America (Western Hemisphere)
<b>G</b>	Geography. Maps. Anthropology. Recreation
<b>H</b>	Social Sciences
<b>J</b>	Political Science
<b>K</b>	Law (General)
<b>KD</b>	Law of the United Kingdom and Ireland
<b>KDZ, KG-KH</b>	Law of the Americas, Latin America and the West Indies
<b>KE</b>	Law of Canada
<b>KF</b>	Law of the United States
<b>KJ-KKZ</b>	Law of Europe
<b>KJV-KJW</b>	Law of France
<b>KK-KKC</b>	Law of Germany
<b>KL-KWX</b>	Law of Asia and Eurasia, Africa, Pacific Area, and Antarctica
<b>L</b>	Education
<b>M</b>	Music
<b>N</b>	Fine Arts
<b>P-PA</b>	General Philology and Linguistics. Classical Languages and Literatures
<b>PA Supplement</b>	Byzantine and Modern Greek Literature. Medieval and Modern Latin Literature
<b>PB-PH</b>	Modern European Languages
<b>PG</b>	Russian Literature
<b>PJ-PK</b>	Oriental Philology and Literature, Indo-Iranian Philology and Literature
<b>PL-PM</b>	Languages of Eastern Asia, Africa, Oceania, Hyperborean, Indian, and Artificial Languages
<b>P-PM Supplement</b>	Index to Languages and Dialects
<b>PN, PR, PS, PZ</b>	General Literature. English and American Literature. Fiction in English. Juvenile belles lettres
<b>PQ, Part 1</b>	French Literature
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Q

SCIENCE

# Library of Congress Classification

1996 EDITION

Prepared by the  
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The additions and changes in Class Q adopted while this work was in press will be cumulated and printed in List 264 of *LC Classification—Additions and Changes*

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## PREFACE

The first edition of Class Q, Science, was published in 1905. Subsequent editions appeared in 1913, 1921, 1948, 1950, 1973, and 1989. This 1996 edition has been produced using a new automated system developed at the Library of Congress for this purpose. The system will allow for the production of new editions on a regular and frequent basis.

In 1992, Rebecca Guenther, Network Development and MARC Standards Office, began overseeing the conversion of Library of Congress Classification data to machine-readable form using the provisionally approved USMARC format for classification data. In 1993-1994, the Cataloging Distribution Service developed programs for producing printed classification schedules from the MARC records in cooperation with Lawrence Buzard, editor of classification schedules, Paul Weiss, senior cataloging policy specialist, and Rebecca Guenther. The Cataloging Distribution Service also coordinated the layout and design of the new schedules.

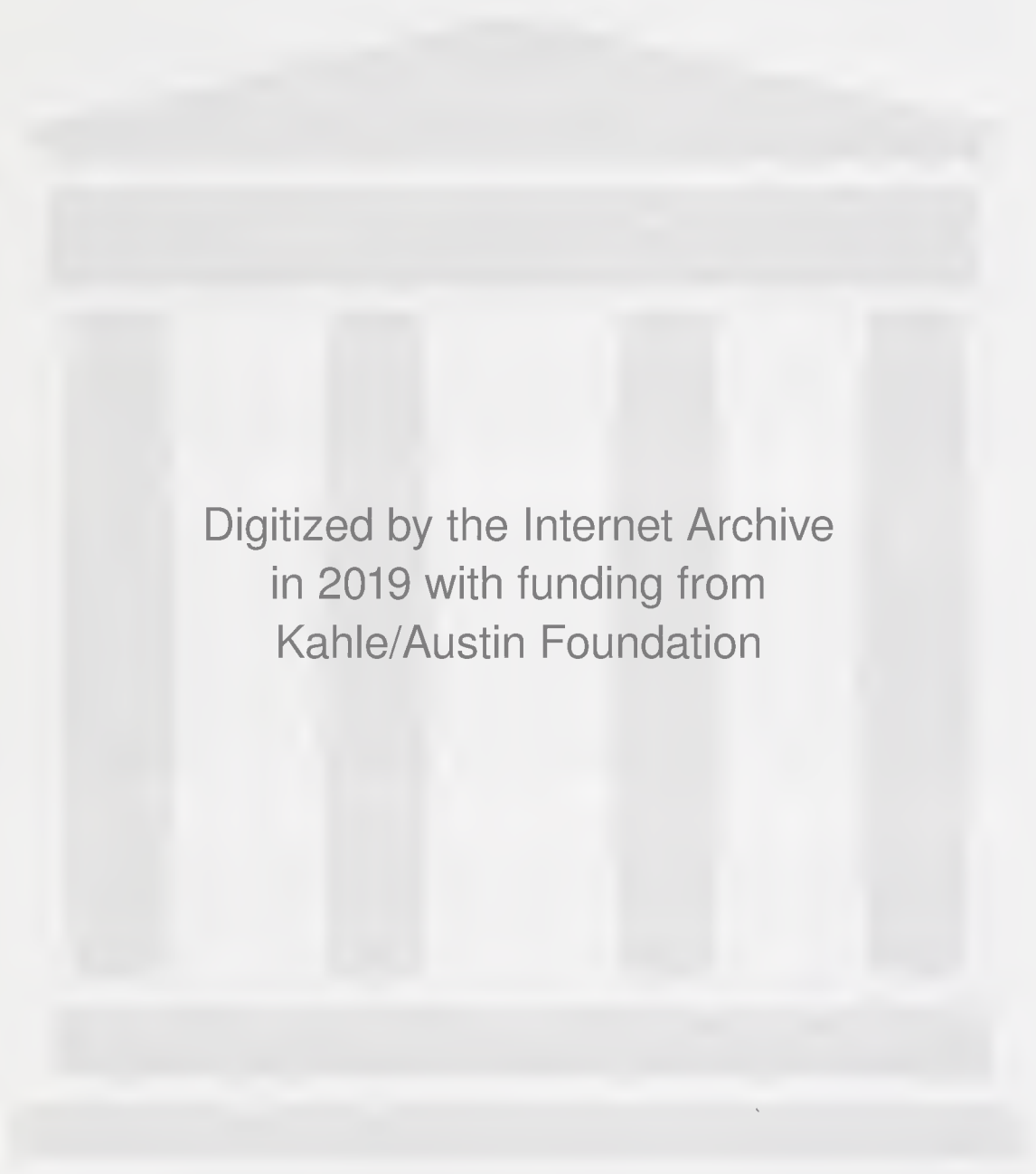
The classification data for Class Q were converted to the MARC format by Lawrence Buzard, Ronald Goudreau, editor of subject headings, and Mary K. D. Pietris, senior cataloging policy specialist. Notes and references have been reworded for clarity, unneeded examples have been deleted, and topics in A-Z lists have been added that had previously appeared only in the Library of Congress shelflist. A table for chemicals has been created, and the indentions under QC759.6 have been simplified.

New or revised numbers and captions are added to the L.C. Classification schedules as a result of development proposals made by the cataloging staff of the Library of Congress and cooperating institutions. Upon approval of these proposals by the weekly editorial meeting of the Cataloging Policy and Support Office, new classification records are created in the master database or existing records revised. The Classification Editorial Team, consisting of Lawrence Buzard, editor, and Barry Bellinger, Kent Griffiths, Nancy Jones, and Dorothy Thomas, assistant editors, is responsible for creating new classification records, maintaining the master database, and creating index terms for the captions.

The Library of Congress is grateful to the Edward Lowe Foundation for its financial assistance in producing this edition of Class Q.

Barbara B. Tillett, Chief  
Cataloging Policy and Support Office

May 1996



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**SCIENCE (General)**

Q

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**MATHEMATICS**

QA

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**ASTRONOMY**

QB

---

**PHYSICS**

QC

---

**CHEMISTRY**

QD

---

**GEOLOGY**

QE

---

**NATURAL HISTORY (General) • BIOLOGY (General)**

QH

---

**BOTANY**

QK

---

**ZOOLOGY**

QL

---

**HUMAN ANATOMY**

QM

---

**PHYSIOLOGY**

QP

---

**MICROBIOLOGY**

QR

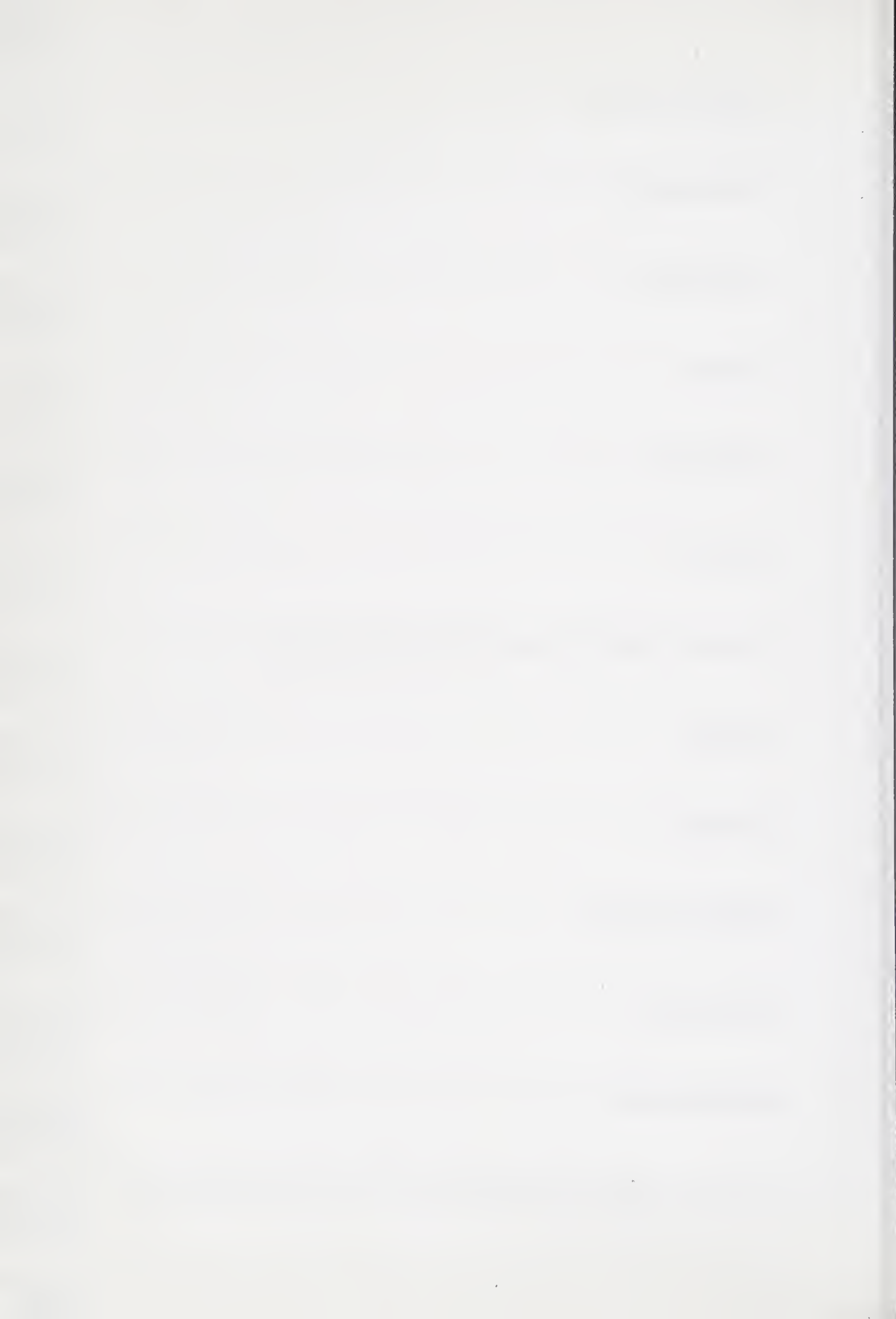
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**Q1-CHEMICAL ELEMENTS • Q2-PARTICLES AND RAYS • Q3-GEOGRAPHIC SUBARRANGEMENT**

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QB	1-991 1-139 140-237 275-343 349-421 455-456 460-466 468-480 495-903 500.5-785 799-903 980-991	Astronomy General Practical and spherical astronomy Geodesy Theoretical astronomy and celestial mechanics Astrogeology Astrophysics Non-optical methods of astronomy Descriptive astronomy Solar system Stars Cosmogony. Cosmology
QC	1-999 1-75 81-114 120-168.85 170-197  221-246	Physics General Weights and measures Descriptive and experimental mechanics Atomic physics. Constitution and properties of matter Including molecular physics, relativity, quantum theory, and solid state physics Acoustics. Sound

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OUTLINE

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QK	1-989 1-474.5  474.8-495 494-494.5 495 504-(638) 640-(707) 710-899 900-989	Botany General Including geographical distribution Spermatophyta. Phanerogams Gymnosperms Angiosperms Cryptogams Plant anatomy Plant physiology Plant ecology
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    - 325.75 Supervised learning
    - 325.78 Back propagation
  - 327 Perceptron theory
    - Cf. TK7882.P3, Pattern recognition systems
- Artificial intelligence
  - 334 Periodicals, societies, congresses, serial collections, yearbooks
  - 334.2 Dictionaries and encyclopedias
  - 334.5 Collected works (nonserial)
  - 335 General works, treatises, and textbooks
  - 335.4 Juvenile works
  - 335.5 Addresses, essays, lectures
  - 335.7 Study and teaching. Research
  - 336 Data processing
  - 337 Distributed artificial intelligence
  - 338 Truth maintenance systems
  - 338.8 Case-based reasoning
  - 338.85 Commonsense reasoning
  - 339 Default reasoning
  - 340 Constraints
  - 341 Turing test
  - 342 Computational intelligence
- Information theory
  - Cf. P87+, Communication
  - Cf. QA268, Coding theory (Mathematics)
  - Cf. TK5101+, Telecommunication (General)
- 350 Periodicals, societies, congresses, serial collections, yearbooks
- 352 Dictionaries and encyclopedias
- 355 History
- 360 General works, treatises, and textbooks
- 365 Popular works
- 367 Addresses, essays, lectures
- 370 Measurements. Tables, calculations, etc.
- 375 Uncertainty theory
- 380 Noise
- 385 Rate distortion theory
- Knowledge representation
  - 387 General works

Q

SCIENCE (GENERAL)

Q

Cybernetics  
Information theory  
Knowledge representation -- Continued  
387.2      Conceptual structures  
387.5      Semantic networks  
390         Frames

- Mathematics
- 1 Periodicals, societies, congresses, serial collections, yearbooks
- 3 Collected works (nonserial)
- 5 Dictionaries and encyclopedias
- 7 Addresses, essays, lectures
- Philosophy
- Cf. QA9.615, Recursive functions. Recursive arithmetic
- Cf. QA248+, Foundations of arithmetic. Set theory
- Cf. QA267+, Machine theory
- Cf. QA681, Foundations of geometry
- 8 Periodicals, societies, congresses, serial collections, yearbooks
- 8.4 General works, treatises, and textbooks
- 8.6 Addresses, essays, lectures
- 8.7 Study and teaching. Research
- Mathematical logic
- 9.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 9.A5-Z General works, treatises, and textbooks
- 9.2 Addresses, essays, lectures
- Study and teaching. Research, see QA8.7
- Classical logical systems
- 9.3 Propositional calculus
- 9.35 Predicate calculus
- 9.37 Infinitary languages
- Nonclassical formal systems
- 9.4 General works
- 9.45 Many-valued logic
- 9.46 Modal logic
- Cf. BC199.M6, Logic
- 9.47 Intuitionistic mathematics
- 9.5 Combinatory logic and lambda calculus
- 9.54 Proof systems
- Constructive mathematics
- 9.56 General works
- 9.58 Algorithms
- 9.59 Computable functions. Computability theory
- Recursion theory
- Cf. QA267+, Machine theory
- 9.6 General works
- 9.615 Recursive functions. Recursive arithmetic
- 9.62 Hierarchies
- 9.63 Unsolvability
- 9.64 Fuzzy logic
- Methodology of deductive systems
- 9.65 Decidability. Gödel's theorem. Gödel numbers
- 9.67 Completeness
- 9.7 Model theory
- 9.8 Metamathematics
- 9.9 Matrix logic

- Philosophy  
 Mathematical logic -- Continued  
 Algebraic logic  
 10 General works  
 10.3 Boolean algebra  
     Cf. QA268.5, Switching theory  
 10.4 Information theory in mathematics  
 10.5 Mathematics as a profession  
 10.7 Social aspects  
 Study and teaching. Research  
     Cf. QA135+, Elementary mathematics  
 11.A1 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 11.A2-Z General works, treatises, and textbooks  
 12 Addresses, essays, lectures  
 By region or country  
     United States  
         General works  
         By region or state, A-Z  
             *Each state may be subarranged:*  
             .x General works  
             .x2A-.x2Z Local, A-Z  
             .x3A-.x3Z Special schools or universities. By  
                             name, A-Z  
 13 Other regions or countries, A-Z  
 13.5.A-Z Under each country:  
     .x General works  
     .x2A-.x2Z Local, A-Z  
     .x3A-.x3Z Special schools or universities. By  
                     name, A-Z  
 14.A-Z Special teaching methods and aids  
 16 General works  
 Audiovisual aids  
 18 General works, treatises, and textbooks  
 19.A-Z Special types, A-Z  
 19.A78 Art  
 19.B55 Blocks (Toys)  
 19.B8 Bulletin boards  
 19.C45 Charts, diagrams, etc.  
 19.C8 Cuisenaire rods  
 19.M34 Manipulatives  
 19.M6 Motion pictures  
 19.O9 Overhead projectors  
 19.P34 Paper work  
     Including folding, cutting, etc.  
 19.T4 Television  
 20.A-Z Other methods, A-Z  
 20.C34 Calculating machines  
 20.C65 Computer-assisted instruction  
 20.E43 Electronic spreadsheets  
 20.G35 Games



- Study and teaching. Research  
 Special teaching methods and aids  
 Other methods, A-Z -- Continued  
 20.P7 Programmed instruction  
 For programmed texts, see QA36.5-QA39.22,  
 QA101-QA107; etc.
- History  
 21 General  
 22 Ancient  
 23 Medieval  
 Modern  
 General, see QA21  
 16th-18th centuries  
 19th-20th centuries  
 24  
 26  
 27.A-Z By region or country, A-Z  
 27.5 Women in mathematics. Women mathematicians  
 For biography, see QA28 +
- Biography  
 28 Collective  
 29.A-Z Individual, A-Z  
 e.g.  
 29.G3 Gauss  
 29.J2 Jacobi  
 29.N2 Napier  
 30 Directories
- Early works through 1800  
 30.3 Egyptian  
 31 Greek  
 Including translations and commentaries  
 For Euclid's Elements as school textbooks, see QA451
- 32 Medieval  
 33 1501-1700  
 35 1701-1800
- General works  
 36 Comprehensive treatises  
 Textbooks  
 36.5 Series of textbooks  
 Advanced  
 37 1801-1969  
 37.2 1970-  
 Intermediate (without calculus)  
 39 1801-1969  
 39.2 1970-  
 Elementary, see QA101 +
- 40 Handbooks, manuals, etc.  
 Popular works, see QA93
- 40.5 Juvenile works  
 41 Formulas, notation, abbreviations  
 41.3 Nomenclature, terminology  
 Communication of mathematical information  
 41.7 Mathematical literature  
 42 Language. Authorship  
 43 Problems, exercises, examinations

- Tables  
 Cf. QA281, Interpolation. Extrapolation
- 47 General tables
- 49 Multiplication tables  
 Including squares and cubes, square roots and cube roots, reciprocals
- 51 Factor tables  
 Logarithms. Tables of mathematical functions  
 Including trigonometric, hyperbolic, etc.
- 55 General works
- 59 Theory and use of logarithms
- Instruments and machines  
 Including practical mathematics, graphical and numerical calculating
- 71 General works, treatises, and textbooks
- 73 Slide rules
- 74 Computation laboratories  
 Calculating machines
- 75 General works  
 Electronic computers. Computer science  
 Including electronic data processing, computer software  
 For applications in special fields, see the field,  
 e.g. QD39.3.E46, Electronic data processing  
 in chemistry  
 Cf. QA267+, Machine theory  
 Cf. TK7885+, Computer engineering
- 75.5 Periodicals, societies, congresses, serial collections, yearbooks
- 76 General works, treatises, and textbooks
- 76.15 Dictionaries and encyclopedias  
 Communication of computer science information
- 76.16 General works
- 76.162 Information services
- 76.165 Language. Authorship
- 76.17 History  
 Biography
- 76.2.A2 Collective
- 76.2.A3-Z Individual, A-Z
- 76.215 Directories
- 76.23 Juvenile works
- 76.24 Addresses, essays, lectures
- 76.25 Computer science as a profession. Vocational guidance  
 Study and teaching. Research
- 76.27 General works
- 76.28 Problems, exercises, examinations
- 76.3 Certification of electronic data processing personnel
- 76.33 Computer camps
- 76.38 Hybrid computers
- 76.4 Analog computers  
 Digital computers

- Instruments and machines
  - Calculating machines
    - Electronic computers. Computer science
      - Digital computers -- Continued
        - 76.5 General works
        - 76.52 Juvenile works
        - 76.525 Microcomputer workstations
        - 76.53 Time-sharing data processing
        - Real-time data processing
          - 76.54 General works
          - 76.545 Transaction systems
        - Online data processing
          - Including general online information services and general videotex systems
            - 76.55 General works
            - 76.57.A-Z Special systems, A-Z
              - 76.57.A43 America Online
              - 76.57.C65 CompuServe
              - 76.57.D44 DELPHI
              - 76.57.E88 eWorld (Online service)
              - 76.57.G45 GENie (Videotex system)
              - 76.57.M52 Microsoft Network
              - 76.57.M55 Minitel
              - 76.57.P75 Prodigy (Online service)
              - 76.57.S68 SOURCE (Videotex system)
              - 76.57.T44 TÉLÉTEL (Videotex system)
              - 76.57.U43 UMI Online (Videotex system)
        - Multimedia systems
          - Cf. QA76.76.I59, Interactive multimedia
      - Parallel processing. Parallel computers
      - Mobile computing
      - Programming
        - For computer programs and other software, see QA76.75+
        - 76.6 General works
        - 76.612 Constraint programming
        - 76.615 Declarative programming
        - 76.618 Evolutionary programming
        - 76.62 Functional programming
        - 76.63 Logic programming
        - 76.635 Microprogramming
        - 76.64 Object-oriented programming
        - 76.642 Parallel programming
        - 76.65 Visual programming
        - 76.66 Systems programming
    - Programming languages
      - 76.7 General works
      - 76.73.A-Z Individual languages, A-Z
        - e.g.
        - 76.73.A24 ALGOL
        - 76.73.A27 APL
        - 76.73.B3 BASIC
        - 76.73.C25 COBOL

- Instruments and machines  
 Calculating machines  
 Electronic computers. Computer science  
 Digital computers  
 Programming languages  
 Individual languages, A-Z -- Continued  
 76.73.D25 DRL  
 76.73.F25 FORTRAN  
 76.73.P25 PL/1  
 Computer software  
 For individual programs, see the type of  
 program, e.g. QA76.76.T49, Text editors  
 For application programs, see the field, e.g.  
 HF5548.4.L67, Lotus 1-2-3  
 76.75 Periodicals. Societies. Serials  
 76.751 Congresses  
 76.752 Dictionaries  
 76.753 Catalogs  
 76.754 General works  
 76.755 Handbooks, tables, etc.  
 76.756 Addresses, essays, lectures  
 76.758 Software engineering  
 76.76.A-Z Special topics, A-Z  
 76.76.A65 Application software  
 76.76.A87 Assemblers  
 76.76.C47 Certification of software  
 76.76.C54 Children's software  
 76.76.C64 Compatibility of software  
 76.76.C65 Compilers  
 76.76.C672 Computer games  
 Class here works on programming computer  
 games  
 For general works on computer games as well  
 as works on specific computer games  
 and actual software, see GV1469.15+  
 76.76.C68 Computer viruses  
 76.76.C69 Configuration management  
 76.76.C73 Costs  
 76.76.D47 Development  
 76.76.D49 Device drivers  
 76.76.D63 Documentation of software  
 76.76.E93 Evaluation of software  
 76.76.E95 Expert systems  
 76.76.G46 Generators  
 76.76.H85 Human factors  
 (76.76.H92) Hypermedia systems  
 see QA76.76.I59  
 76.76.H94 Hypertext systems  
 76.76.I57 Integrated software  
 76.76.I59 Interactive media. Hypermedia  
 Cf. QA76.575, Multimedia systems  
 76.76.M54 Middleware

- Instruments and machines  
 Calculating machines  
 Electronic computers. Computer science  
 Computer software  
 Special topics, A-Z -- Continued
- 76.76.O63      Operating systems  
                   Including DOS, UNIX, OS/2, etc.
- 76.76.P74      Productivity  
 76.76.P76      Protection of software  
 76.76.Q35      Quality control  
 76.76.R44      Reliability  
 76.76.R47      Reusability  
 76.76.S37      Screen savers  
 76.76.S46      Shareware  
 76.76.S64      Software maintenance  
 76.76.S73      Standards for software  
 76.76.S95      Systems software  
 76.76.T45      Teleprocessing monitors  
 76.76.T48      Testing of software  
 76.76.T49      Text editors  
 76.76.T83      Translators  
 76.76.U84      Utilities  
 76.76.V47      Verification and validation of software  
                   Viruses, see QA76.76.C68  
                   Windows
- 76.76.W56      Firm-ware  
 76.765
- 76.8.A-Z      Special computers, computer systems, and  
                   microprocessors. By name, A-Z  
                   e.g.
- 76.8.I12      IBM 360  
 76.8.U6      Univac  
 76.8.U7      Ural
- 76.84      Fourth generation computers  
 76.85      Fifth generation computers  
 76.87      Neural computers. Neural networks  
 76.88      Supercomputers. High performance computing  
 76.885      Petaflops computers  
 76.89      Pen-based computers
- 76.9.A-Z      Other topics, A-Z
- 76.9.A23      Abstract data types  
 76.9.A25      Access control. Computer security  
                   Cf. HF5548.37, Security measures in  
                   electronic data processing  
                   departments
- 76.9.A43      Algorithms  
 76.9.A73      Architecture, Computer  
 76.9.A93      Auditing  
                   Class here works on the auditing of electronic  
                   data processing systems and activities  
                   For works dealing with the auditing of  
                   electronic data processing departments,  
                   see HF5548.35
- 76.9.A955      Automatic hypothesis formation

- Instruments and machines  
 Calculating machines  
 Electronic computers. Computer science  
 Other topics, A-Z -- Continued
- 76.9.A96 Automatic theorem proving  
 76.9.B32 Backup processing  
 76.9.B38 Batch processing  
 76.9.B84 Bulletin boards  
 Cams, Computer, see QA76.33  
 76.9.C55 Client/server computing  
 Computer algorithms, see QA76.9.A43  
 Computer architecture, see QA76.9.A73  
 76.9.C62 Computer arithmetic  
 Computer camps, see QA76.33  
 76.9.C63 Computer capacity  
 76.9.C64 Computer literacy  
 Computer mathematics, see QA76.9.M35  
 76.9.C643 Computer organization  
 76.9.C65 Computer simulation  
 Cf. T57.62+, Industrial engineering  
 Cf. TA343, Engineering mathematics  
 76.9.C659 Computers and children  
 Cf. LC38, Computer-assisted domestic  
 education  
 76.9.C66 Computers and civilization. Social aspects of  
 computers  
 Conversion of computer files, see QA76.9.F48  
 Conversion of computer systems  
 76.9.C68 Database design  
 76.9.D26 Database management  
 76.9.D3 Database security  
 76.9.D314 Databases  
 76.9.D32 Including online databases  
 76.9.D33 Data compression  
 76.9.D337 Data entry  
 76.9.D345 Data preparation  
 76.9.D348 Data recovery  
 76.9.D35 Data structures  
 76.9.D43 Debugging in computer science  
 Including structured walkthrough  
 76.9.D5 Distributed processing  
 76.9.D6 Documentation  
 Cf. QA76.76.D63, Software documentation  
 76.9.E25 Economic aspects  
 76.9.E53 End-user computing  
 76.9.E94 Evaluation of computer performance  
 76.9.E95 Evaluation of data processing activities  
 Expert systems, see QA76.76.E95  
 76.9.F35 Computers and family  
 76.9.F38 Fault-tolerant computing  
 76.9.F48 File conversion  
 76.9.F5 File organization  
 76.9.F53 File processing

- Instruments and machines  
 Calculating machines  
   Electronic computers. Computer science  
   Other topics, A-Z -- Continued
- 76.9.G37 Garbage collection  
 76.9.G68 Government policy  
 76.9.H35 Graphical user interfaces, see QA76.9.U83  
 76.9.H36 Hard disk management  
 76.9.H85 Hashing  
 76.9.I55 Human-computer interaction  
 76.9.I58 Input design  
 76.9.K48 Interactive computer systems  
 76.9.M3 Keyboarding  
 76.9.M35 Management  
 76.9.M45 Mathematics, Computer  
 76.9.M65 Memory management  
 76.9.N38 Moral and religious aspects  
 Natural language processing  
   Cf. P98 +, Linguistics  
 Online databases, see QA76.9.D32  
 Organization, Computer, see QA76.9.C643  
 Psychological aspects  
 Question-answering systems  
 Remote job entry  
 Security, Computer, see QA76.9.A25  
 Security, Data base, see QA76.9.D314  
 Social aspects of computers, see QA76.9.C66  
 Software maintenance, see QA76.76.S64  
 Standards  
   Cf. QA76.76.S73, Standards for software
- 76.9.S84 Structured techniques  
 76.9.S88 Structured walkthrough, see QA76.9.D43  
 76.9.S9 System design  
 76.9.T48 Systems migration  
 76.9.T7 Text processing  
 76.9.U83 Transborder data flow  
 User interfaces  
   Including graphical user interfaces  
 Virtual computer systems  
 Use of electronic computers in mathematics
- Miscellaneous geometrical instruments  
 Cf. T375 +, Drawing instruments
- 77 General works  
 81 Planimeter  
 Mechanical aids in higher analysis  
 85 General works  
 90 Graphic methods (General). Nomography  
 93 Popular works  
 95 Mathematical recreations  
 99 Miscellany and curiosa

- Elementary mathematics. Arithmetic  
 Including basic mathematical concepts for the elementary grades  
 Cf. QA248+, Foundations of arithmetic
- Textbooks  
 101 Through 1845  
 103 1846-1900  
 106 1901-1960  
 107 1961-
- 109 Special aspects of the subject as a whole  
 111 Rapid calculators and short cuts  
 113 Counting  
 Class here works dealing with counting, including counting books and other forms of materials  
 For works dealing with numeration, the concept of numbers, and numeration systems, see QA141+
- 115 Elementary operations  
 e.g. addition, subtraction, multiplication, division
- 117 Fractions  
 Including proportion, ratio
- 119 Roots  
 Including square root, cube root
- Study and teaching  
 Cf. LC4621, Education of mentally handicapped children  
 General works, treatises, and textbooks  
 135 Through 1960  
 135.5 1961-
- 137 Teaching fractions  
 139 Problems, exercises, examinations
- Numeration, number concept, numeration systems  
 Cf. QA241+, Theory of numbers  
 Cf. QA297+, Numerical analysis
- 141 General works, treatises, and textbooks  
 141.15 Number concept (Elementary)  
 Cf. BF456.N7, Numbers. Mathematics (Psychology)
- 141.2 History  
 Cf. GN476.15, Primitive numeration  
 Cf. P211+, History of writing
- 141.3 Juvenile works  
 141.35 Decimal system  
 Class here expository and historical works on the decimal system  
 For tables, arithmetic, and other works with values expressed mainly in the decimal system, see the special class numbers which are provided for particular fields, e. g. QA101, Arithmetic. For tables, arithmetic, etc., for other special systems, seen QA141.4+
- 141.4 Binary system  
 Duodecimal system



- Elementary mathematics. Arithmetic  
 Numeration, number concept, numeration systems  
 Duodecimal system -- Continued  
 141.5.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 141.5.A2-Z General works, treatises, and textbooks  
 141.6 Octal system  
 141.8.A-Z Other special systems, A-Z  
 141.8.Q5 Quinary system  
 141.8.S4 Sexadecimal system  
 141.8.S5 Sexagesimal system  
 141.8.T45 Ternary system  
 (145) Algebra and arithmetic  
 see QA101-QA145
- Algebra  
 150 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 151 History  
 Textbooks  
 Elementary  
 152 Through 1970  
 152.2 1971-  
 Advanced  
 154 Through 1970  
 154.2 1971-  
 154.8 Early works to 1800  
 155 General works and treatises  
 Including higher algebra  
 155.2 Addresses, essays, lectures  
 155.5 Special aspects of the subject as a whole  
 155.7.A-Z Special topics, A-Z  
 155.7.E4 Electronic data processing  
 157 Problems, exercises, examinations  
 159 Study and teaching. Research  
 161.A-Z Miscellaneous elementary topics, A-Z  
 161.B48 Binomial coefficients  
 161.B5 Binomial theorem  
 161.E95 Exponents  
 161.F3 Factors  
 Logarithms, see QA59
- 162 Abstract algebra  
 Cf. QA10.3, Boolean algebra  
 Combinatorics. Combinatorial analysis  
 164 General works  
 164.8 Enumeration problems. Generating functions  
 Cf. QA353.G44, Special functions  
 164.9 Identities  
 165 Permutations. Combinations. Partitions  
 Including magic squares and magic cubes  
 Graph theory  
 Cf. QA612.18, Map-coloring problem
- 166 General works  
 166.15 Directed graphs

- Algebra
- Combinatorics. Combinatorial analysis
  - Graph theory -- Continued
    - 166.16 Perfect graphs
    - 166.17 Random graphs
    - 166.18 Hamiltonian graph theory
    - 166.19 Eulerian graph theory
    - 166.195 Topological graph theory
    - 166.2 Trees
    - 166.22 Paths and cycles
    - 166.23 Hypergraphs
    - 166.24 Reconstruction
  - Design and configurations
    - 166.25 General works
    - 166.3 Block designs
    - 166.4 Hadamard matrices
    - 166.6 Matroids. Greedoids
    - 166.7 Packing and covering
    - 166.75 Polyominoes
    - 166.8 Tessellation and tiling
  - Combinatorial geometry
    - 167 General works
    - 167.2 Finite geometries
  - 169 Homological algebra
    - Including functors, categories
  - (171) Group theory
    - see QA174-QA183
  - Ordered sets
    - 171.48 General works
    - 171.485 Partially ordered sets
    - 171.49 Semilattices
    - 171.5 Lattice theory
      - Cf. QD921+, Crystal lattices
  - Ordered algebraic structures
    - 172 General works
    - 172.4 Ordered groups
  - Group theory
    - Cf. QA172.4, Ordered groups
    - Cf. QA385+, Continuous groups
    - Cf. QA387, Topological groups. Lie groups
    - Cf. QA613.7, Topological transformation groups
    - Cf. QA614.97, Pseudogroups and deformations of structures
    - Cf. QC174.17.G7, Quantum theory
    - Cf. QD455.3.G75, Physical chemistry
  - 174 Periodicals, societies, congresses, serial publications
    - 174.2 General works
    - 174.5 Juvenile works
    - 174.7.A-Z Special topics, A-Z
    - 174.7.D36 Data processing
    - 175 Permutation groups
    - 176 Representations of groups

## Algebra

- 177 Group theory -- Continued
  - 178 Finite groups
  - 179 Infinite groups
  - 180 Linear algebraic groups
  - 181 Abelian groups
  - 182 Groupoids
  - 182 Semigroups
  - 182.5 Combinatorial group theory
  - 183 Geometric group theory
- Linear and multilinear algebra. Matrices
  - Cf. QA243, Bilinear forms
  - 184 General works, treatises, and textbooks
  - 184.5 Problems, exercises, examinations
  - 185.A-Z Special topics, A-Z
    - 185.C65 Computer-assisted instruction
    - 185.D37 Data processing
  - 186 Vector spaces
  - Matrices
    - 191 Determinants
    - 193 Eigenvalues and eigenvectors
    - 196 Quaternions
    - 199 Clifford algebras
    - 199.5 Multilinear algebra. Tensor products
  - Vector and tensor algebra
    - Cf. QA433, Vector and tensor analysis
  - 200 General works
  - 201 Invariants
  - 205 Exterior algebra. Ausdehnungslehre
- Theory of equations
  - 211 General works, treatises, and textbooks
  - 212 Roots. Symmetric functions
    - Cf. QA119, Elementary mathematics
  - 214 General resolution of equations
    - Including simultaneous equations
  - 215 Cubic, biquadratic, and other particular equations
  - 218 Numerical solutions
  - 219 Graphic algebra
- Approximation theory
  - Cf. QA297+, Numerical analysis
  - 221 General works
  - 224 Spline theory
- Number theory
  - 241 General works, treatises, and textbooks
  - 241.5 Geometry of numbers
  - 241.7 Probabilistic number theory
  - 242 Divisibility. Linear congruences. Factorization.
    - Quadratic residues. Diophantine analysis
  - 242.5 Arithmetical algebraic geometry
  - 243 Forms
    - Including quadratic, bilinear forms
  - 244 Higher congruences, residues. Fermat's theorem
  - 245 Cyclotomy. Application of functions to arithmetic

## Algebra

- Number theory -- Continued
- 246 Distribution of primes. Special numerical functions, etc.
- 246.5 Sequences of integers
- Exponential and character sums
- 246.7 General works
- Special sums, A-Z
- 246.8.G38 Gaussian
- 246.8.K58 Kloosterman
- 246.8.T75 Trigonometric
- Algebraic fields. Algebraic numbers
- 247 General works
- Modular fields. Finite fields
- 247.3 General works
- 247.35 Modular arithmetic
- 247.4 Differential and difference algebra
- 247.45 Division algebras
- 247.5 Transcendental numbers. Irrational numbers
- Foundations of arithmetic. Set theory. Transfinite numbers
- 248 General works
- 248.3 Elementary textbooks
- Recursive functions. Recursive arithmetic, see QA9.6 +
- 251 Universal algebra
- 251.3 Commutative rings and algebras
- 251.38 Local rings
- 251.4 Noncommutative rings and algebras
- 251.5 Associative rings and algebras
- Nonassociative rings and algebras
- 252 General works
- 252.3 Lie algebras. Lie superalgebras
- Cf. QA387, Lie groups
- 252.5 Jordan algebras
- 255 Complex numbers
- Machine theory. Abstract machines. Abstract automata
- Cf. QA9.6 +, Recursive functions
- Cf. QA75.5 +, Electronic computers
- Cf. QA402.3 +, Control theory
- 267 General works, treatises, and textbooks
- 267.3 Formal languages
- Cf. P98 +, Language data processing
- 267.5.A-Z Special types of machines, A-Z
- 267.5.C45 Cellular automata
- 267.5.P7 Probabilistic automata
- 267.5.S4 Sequential machines
- 267.5.T45 Temporal automata
- 267.7 Computational complexity. Kolmogorov complexity
- 268 Coding theory
- 268.5 Switching theory
- Cf. QA10.3, Boolean algebra
- Cf. TK7868.S9, Switching circuits
- Game theory

## Algebra

Game theory -- Continued

269

General works

Cf. T57.92, Industrial engineering

270

Games of strategy

271

Games of chance

272

Differential games

272.5

Noncooperative games

## Probabilities

Cf. T57.3+, Industrial engineering

Cf. TA340, Engineering mathematics

273.A1

Periodicals, societies, congresses, serial collections, yearbooks

273.A3

Dictionaries and encyclopedias

273.A4

History

273.A5-Z

General works, treatises, and textbooks

273.15

Popular works

273.16

Juvenile works

273.18

Addresses, essays, lectures

273.19.A-Z

Special topics, A-Z

273.19.E4

Electronic data processing

Study and teaching. Research

273.2

General works

273.25

Problems, exercises, examinations

273.27

Programmed instruction

273.3

Handbooks, tables, formulas, etc.

273.4

Axioms and foundations

273.43

Probability theory on algebraic and topological structures

273.45

Combinatorial probabilities

273.5

Geometric probability. Stochastic geometry

273.6

Distributions. Characteristic functions

273.67

Limit theorems

## Stochastic processes

Cf. T57.33, Renewal theory

Cf. T57.35+, Renewal theory

Cf. T57.9, Queuing theory

274.A1

Periodicals, societies, congresses, serial collections, yearbooks

274.A5-Z

General works, treatises, and textbooks

274.12

Problems, exercises, etc.

274.13

Axioms and foundations

## Stochastic analysis

274.2

General works

274.22

Stochastic integrals

274.223

Stochastic inequalities

274.225

Stochastic sequences

274.23

Stochastic differential equations

274.25

Stochastic partial differential equations

274.27

Stochastic integral equations

274.28

Random operators

274.3

Stationary processes

274.4

Gaussian processes

- Probabilities  
 Stochastic processes -- Continued
- 274.42 Point processes
  - 274.45 Random fields
  - 274.46 Random measures
  - 274.5 Martingales. Semimartingales
  - 274.6 Learning models
  - Markov processes. Markov chains
  - 274.7 General works
  - 274.73 Random walks
  - 274.75 Diffusion processes. Brownian motion processes  
 Cf. QC183, Constitution and properties of  
 matter and anti-matter
  - 274.755 Jump processes
  - 274.76 Branching processes
  - 274.8 Queuing theory
  - 275 Theory of errors. Least squares
- Mathematical statistics  
 Including statistical inference and fundamental  
 concepts of statistics  
 For special applications of statistics, see the field  
 of application, e.g. HD1421+, Agricultural  
 statistics; LB2841, Educational statistics;  
 TA340, Statistical methods in engineering
- 276.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks
  - 276.A12 Collected works (nonserial)
  - 276.A2-Z General works
  - 276.12 Elementary texts  
 Including descriptive statistics
  - 276.13 Juvenile works
  - 276.14 Dictionaries and encyclopedias
  - 276.15 History
  - Biography
  - 276.156 Collective
  - 276.157.A-Z Individual, A-Z
  - 276.16 Addresses, essays, lectures
  - 276.17 Statistics as a profession
  - Study and teaching. Research
  - 276.18 General works
  - 276.19 Outlines, syllabi
  - 276.2 Problems, exercises, examinations
  - 276.25 Handbooks, tables, formulas, etc.  
 Including tables of random numbers
  - 276.3 Graphic methods
  - 276.4 Data processing
  - 276.6 Sampling theory and methods
  - 276.7 Sampling distribution
  - 276.74 Tolerance regions. Confidence intervals
  - 276.8 Estimation theory
  - Testing of hypotheses
  - 277 General works
  - 277.3 Chi-square test

- Mathematical statistics -- Continued
- Multivariate analysis
    - 278 General works
    - 278.2 Regression analysis. Correlation analysis
    - 278.3 Path analysis
    - 278.4 Paired and multiple comparisons
    - 278.5 Factor analysis. Principal components analysis. Correspondence analysis
    - 278.6 Latent structure analysis
    - 278.65 Discriminant analysis
    - 278.7 Order statistics
    - 278.75 Ranking and selection
    - 278.8 Nonparametric methods
    - 279 General works
    - 279.2 Prediction analysis
    - Decision theory
      - 279.4 General works
      - 279.5 Bayesian statistics
      - 279.7 Multistage decision procedures. Sequential analysis
    - 280 Time series analysis
    - 281 Interpolation. Extrapolation
      - Cf. QA47+, Mathematical tables
      - Cf. QA221+, Approximation theory
      - Cf. QA273+, Probabilities. Theory of errors. Least squares
      - Cf. QA297+, Numerical analysis
    - 292 Sequences
      - Cf. QA246.5, Sequences of integers
    - 295 Series
      - Including infinite products and other infinite processes
    - Numerical analysis
      - Cf. QA221+, Approximation theory
      - 297 General works, treatises, and textbooks
      - 297.3 Problems, exercises, etc.
      - 297.5 Numerical approximation
        - Cf. QA71+, Instruments and machines
        - Cf. QA90, Graphic methods. Nomography
        - Cf. QA218, Numerical solutions of algebraic equations
        - Cf. QA275, Least squares
        - For numerical solution to differential equations, including initial value problems and boundary value problems, see QA370+
      - 297.55 Relaxation methods
      - 297.6 Smoothing. Curve fitting
      - 297.7 Roundoff errors
      - 297.75 Interval analysis
      - 297.8 Iterative methods
      - 298 Numerical simulation. Monte Carlo method
        - Cf. T57.62+, Industrial engineering
      - 299 Numerical differentiation
      - Numerical integration

- Numerical analysis
  - Numerical integration -- Continued
    - 299.3 General works
    - 299.4.A-Z Special formulas, A-Z
    - 299.4.C83 Cubature formulas
    - 299.4.G3 Gaussian quadrature formulas
- Analysis
  - Including calculus, functional analysis, functions, differential equations
  - 299.6 Periodicals, societies, congresses, serial collections, yearbooks
  - Foundations
    - 299.8 General works
    - 299.82 Nonstandard analysis
  - 300 General works, treatises, and textbooks
  - 300.5 Addresses, essays, lectures
  - 301 Problems, exercises, examinations
  - 302 Early works through 1800
  - Calculus
    - Cf. QA431, Calculus of differences
  - 303 General works, treatises, and textbooks
  - 303.3 Study and teaching. Research
  - 303.5.A-Z Special topics, A-Z
    - 303.5.C65 Computer-assisted instruction
    - 303.5.D37 Data processing
  - Differential calculus
    - 304 General works
    - 305 Problems, exercises, examinations
    - 306 Miscellaneous special topics
  - Integral calculus
    - 308 General works
    - 309 Problems, exercises, examinations
    - 310 Tables of integrals
    - 311 Miscellaneous special topics
    - 312 Measure and integration
      - Including Lebesgue integrals
    - 313 Ergodic theory
      - Cf. QA329.2, Linear operators
      - Cf. QA611.5, Topology
  - 314 Fractional calculus
    - Calculus of variations
      - Cf. QA402.3+, Control theory
    - 315 General works
    - 316 Miscellaneous special topics
  - Functional analysis
    - 319 Periodicals, societies, congresses, serial collections, yearbooks
    - General works
      - 320 General works
      - 321 Addresses, essays, lectures
      - 321.5 Nonlinear functional analysis
      - 322 Topological linear spaces
      - 322.2 Normed linear spaces. Banach spaces
      - 322.4 Inner product spaces. Hilbert spaces



## Analysis

- Functional analysis -- Continued
- 322.5 Indefinite inner product spaces
- 323 Function spaces
- 324 Theory of distributions
- 325 Measures, integration, derivatives
- 326 Topological algebras. Banach algebras
- Operator theory
- 329 General works
- 329.2 Linear operators
- Differential operators
- 329.4 General works
- 329.42 Partial differential operators
- 329.6 Integral operators
- 329.7 Pseudodifferential operators
- Nonlinear operators
- 329.8 General works
- 329.9 Fixed point theory  
Cf. QA612.24, Fixed points and coincidences
- Theory of functions
- 331 General works, treatises, and advanced textbooks
- 331.3 Elementary textbooks
- 331.5 Functions of real variables
- 331.7 Functions of complex variables
- Riemann surfaces
- Including multiform, uniform functions
- 333 General works
- 335 Fuchsian groups
- 337 Teichmüller spaces
- 341 Algebraic functions
- 342 Logarithmic, circular, and exponential functions
- 343 Elliptic functions. Elliptic integrals. Modular functions
- 345 Abelian functions. Theta functions  
Including hyperelliptic functions
- Special functions
- Cf. QA406, Spherical harmonics
- Cf. QA408, Bessel functions
- Cf. QA409, Lamé functions
- 351 General
- 353.A-Z Other special functions, A-Z
- 353.A9 Automorphic. Fuchsian
- 353.C17 C-functions
- 353.C64 Concave functions
- 353.E5 Entire functions
- Fuchsian, see QA353.A9
- 353.G3 Gamma
- 353.G44 Generating functions  
Cf. QA164.8, Combinatorial analysis
- 353.H9 Hypergeometric
- 353.P4 Periodic functions
- 353.T7 Transcendental functions

- Analysis
- Theory of functions -- Continued
    - 355 Miscellaneous special topics
    - 360 Geometric principles of analysis. Mapping of regions.
      - Conformal representation
      - Cf. QA646, Differential geometry
  - Differential equations
    - 370 Periodicals, societies, congresses, serial collections, yearbooks
    - 371 General works, treatises, and textbooks
    - 371.5.A-Z Special topics, A-Z
    - 371.5.D37 Data processing
    - 372 Ordinary differential equations (linear and nonlinear)
      - 372.5 Differential-algebraic equations
      - 373 Differential-difference equations
      - 374 Partial differential equations (first order)
      - 377 Partial differential equations (second and higher orders)
    - 378 Initial value problems
    - 379 Boundary value problems
    - 380 Bifurcation theory
    - 381 Differential forms and invariants. Pfaffians
  - Continuous groups (of transformations). Infinitesimal transformations
    - 385 General works
    - 387 Topological groups. Lie groups
      - Cf. QA613.7, Topological transformation groups
      - Cf. QA613.8, Hopf algebras
      - Cf. QA614.97, Pseudogroups and deformations of structures
  - Analytical methods used in the solution of physical problems
    - Including mathematical physics (mathematical theory only)
      - Cf. QC19.2+, Mathematical physics
      - Cf. TA329+, Engineering mathematics and engineering analysis
  - 401 General works, treatises, and textbooks
  - System analysis
    - Cf. T57.6+, Industrial engineering
    - Cf. TA168, Systems engineering
  - 402 General works
  - 402.2 Decomposition method
    - Control theory (General and linear)
      - Cf. TJ212+, Automatic control
    - 402.3 General works
    - 402.35 Nonlinear control theory
    - 402.37 Stochastic control theory
    - 402.5 Mathematical optimization. Programming
      - Cf. T57.7+, Industrial engineering

## Analysis

Analytical methods used  
in the solution of

physical problems -- Continued

Harmonic analysis (General)

Including abstract harmonic analysis

403

General works

403.3

Wavelets

Fourier analysis

403.5

General works

404

Fourier series

404.5

Orthogonal series. Orthogonal functions and  
polynomials

Potential theory. Pluripotential theory

Cf. QA825+, Analytic mechanics

404.7

General works

405

Harmonic functions

406

Laplace and Legendre functions (Spherical harmonics)

408

Bessel functions (Cylindrical harmonics)

409

Lamé functions (Ellipsoidal harmonics)

411

Toroidal and other harmonics

425

Dirichlet's problem and analogous problems

427

Nonlinear theories. Nonlinearity

431

Difference equations and functional equations.

Integral equations. Calculus of differences

432

Operational calculus. Laplace transformation

433

Vector and tensor analysis. Spinor analysis. Scalar  
field theory

## Geometry

Cf. QA681, Foundations of geometry

440

Periodicals, societies, congresses, serial  
collections, yearbooks

441

Dictionaries and encyclopedias

443

Collected works (nonserial)

443.5

History

444

Early works through 1800

445

General works, treatises, and textbooks

445.5

Juvenile works

446

Addresses, essays, lectures

447

Special aspects of the subject as a whole

448.A-Z

Special topics, A-Z

448.D38

Data processing

Elementary geometry

451

Euclid's Elements as textbooks

For Greek texts and translations, see QA31

Other textbooks (Plane and solid)

453

General works

455

Plane

457

Solid

459

Problems, exercises, examinations

460.A-Z

Special propositions, A-Z

460.P8

Pythagorean proposition

Study and teaching. Research

- Geometry
- Elementary geometry
    - Study and teaching. Research -- Continued
      - 461 General works, treatises, and textbooks
      - 462 Special teaching methods and aids
      - 463 Laboratory manuals
      - 464 Practical geometry. Geometrical drawing
        - Cf. QA497, Higher geometrical drawing (Plane)
        - Cf. QA501+, Descriptive geometry
    - 465 Mensuration
      - Famous problems
        - 466 General works
        - 467 Circle squaring
        - 468 Trisection of the angle
        - 469 Duplication of the cube
    - Projective geometry
      - 471 Cf. QA554, Projective methods (Analytic geometry)
    - Modern geometry. Inversions
      - 473 General works
      - 474 Plane
      - 475 Solid
      - 477 Affine geometry
    - Special topics in plane geometry
      - 481 Axioms. Postulates. Logic
        - Cf. QA681, Foundations of geometry
      - 482 Straight lines, angles, triangles, etc.
      - 483 Curves
      - 484 Circle
      - 485 Conics
    - Special topics in solid geometry
      - 491 Higher geometrical drawing (Plane)
      - 497 Descriptive geometry
        - Cf. T351+, Mechanical drawing
    - 501 General works, treatises, and textbooks
    - 501.5 Problems, exercises, examinations
    - Parallel projection
      - 502 General works
        - Orthogonal projection on two planes
          - 503 General works
          - 505 Isometric projection
        - 507 Oblique projection
      - Central projection
        - 511 General works
        - 515 Perspective
          - Class here geometrical works only
          - Cf. NA2710, Architecture
          - Cf. NC748+, Drawing
          - Cf. T369, Mechanical drawing
    - 519 Shades and shadows
      - Class here geometrical works only
      - Cf. NC755, Drawing

- Geometry
- 520 Descriptive geometry -- Continued
    - Spherical projection
      - Cf. GA110+, Map projection
  - 521 Miscellaneous special topics
  - 529 Geometry and trigonometry (combined)
  - Trigonometry
    - 531 General works, treatises, and textbooks
    - 533 Plane
    - 535 Spherical
    - 537 Problems, exercises, examinations
    - 538 Miscellaneous special topics
  - Analytic geometry
    - 551 General works, treatises, and textbooks
    - 552 Plane. Conic sections
    - 553 Solid
    - 554 Projective methods
    - 555 Problems, exercises, examinations
    - 556 Coordinates
    - 556.5 Equipollence
    - 557 Straight line and circle. Triangle
    - 559 Conics
    - 561 Quadric surfaces
    - 563 Maxima and minima
  - Algebraic geometry
    - 564 General works, treatises, and textbooks
    - Higher algebraic curves
      - 565 General works, treatises, and textbooks
      - 567 Plane curves
      - 567.2.A-Z Special curves, A-Z
        - 567.2.C82 Cubic
        - 567.2.E44 Elliptic
        - 567.2.I84 Isothermic
        - 567.2.O76 Orthogonal
        - 567.2.Q35 Quartic
        - 567.2.Q54 Quintic
    - Higher algebraic surfaces
      - 571 General works, treatises, and textbooks
      - 573 Special surfaces
        - Including cubic, quartic surfaces
  - 581 Skew algebraic curves
    - Including twisted cubics, curves of double curvature
  - Transformations, correspondences, and general methods for algebraic configurations
    - Including collineation, correlation
  - 601 General works, treatises, and textbooks
  - 602 Cremona transformations. Quadratic transformations
  - 603 Classification of curves and surfaces. Groups of points and curves
  - 605 Applications of transcendental functions to curves and surfaces

## Geometry

## Algebraic geometry

Transformations, correspondences,  
and general methods for algebraic  
configurations -- Continued

607 Enumerative geometry. Systems of curves and  
surfaces

608 Connexes, complexes, congruences. Line geometry  
For algebraic configurations in hyperspace, see  
QA691+

609 Conformal geometry

## Topology

611.A1 Periodicals, societies, congresses, serial  
collections, yearbooks

611.A3 History

611.A34-Z General works, treatises, and textbooks

611.13 Juvenile works

611.15 Addresses, essays, lectures

Study and teaching. Research

611.17 General works

611.19 Problems, exercises, examinations

611.21 Imbeddings

611.23 Compactifications. Compact spaces

611.234 Realcompactness. Realcompactification. Realcompact  
spaces

611.24 Proximity spaces

611.25 Uniform spaces. Quasi-uniform spaces

611.28 Metric spaces

611.29 Isometries, contractions, expansions

611.3 Other miscellaneous topological spaces

For linear topological spaces, see QA322

611.35 CW complexes

611.5 Topological dynamics

Including those special aspects relating to  
ergodic theory

Cf. QA614.8+, Differentiable dynamical  
systems

611.7 Fixed point theorems

Cf. QA329.9, Nonlinear operators

Algebraic topology. Combinatorial topology

Cf. QA166+, Graph theory

612 General works

Low-dimensional topology

Cf. QA613.2, Manifolds and cell complexes

612.14 General works

612.18 Map-coloring problem

612.19 Four-color problem

Knot theory. Link theory

612.2 General works

612.23 Braid theory

612.24 Fixed points and coincidences

Cf. QA329.9, Fixed point theory

## Geometry

## Topology

## Algebraic topology.

Combinatorial topology -- Continued

Homology and cohomology theories

Cf. QA169, Homological algebra

612.3

General works

612.33

K-theory. KK-theory

612.36

Sheaves

612.5

Retracts

Fiber spaces. Fiber bundles. Fiberings

612.6

General works

612.63

Vector bundles

Homotopy theory

612.7

General works

612.72

Homotopy equivalences

612.76

Loop spaces

612.77

H-spaces

612.78

Homotopy groups

612.782

Steenrod algebra

612.79

Obstruction theory

612.8

Spectral sequences

Manifolds and cell complexes

613

General works

613.2

Topological manifolds

613.4

PL-topology

Differential topology

613.6

General works

613.618

Characteristic classes

613.619

Vector fields

613.62

Foliations

613.64

Differentiable mappings

613.65

Diffeomorphisms

613.658

Surgery. Handlebodies

613.66

Cobordism

613.7

Topological transformation groups

Cf. QA387, Topological groups

613.8

Hopf algebras

Cf. QA387, Topological groups

Global analysis. Analysis on manifolds

614

General works

Differentiable manifolds

614.3

General works

614.4

Jets

614.42

Stratified sets

614.44

Supermanifolds

Calculus on manifolds

614.5

General works

614.58

Differentiable mappings and singularities.

Catastrophes

614.7

Critical point theory

614.73

Harmonic maps

## Geometry

## Topology

## Global analysis.

Analysis on manifolds -- Continued

Differentiable dynamical systems

Cf. QA611.5, Topological dynamics

Cf. QA871, Analytic mechanicals

614.8

General works

614.82

Flows

614.83

Hamiltonian systems

614.86

Fractals

Partial differential equations and differential operators on manifolds

614.9

General works

614.92

Index theorems

614.95

Spectral geometry

614.97

Pseudogroups and deformations of structures

Cf. QA387, Lie groups

## Infinitesimal geometry

615

General works, treatises, and textbooks

Of curves

621

General works

623

Kinematic geometry. Roulettes

624

Curvature

626

Rectification and quadrature

628

Transcendental curves

Of surfaces

631

General works

634

Curvature

636

Areas and volumes

638

Transcendental surfaces

639

Differential geometry of congruences, etc.

## Convex geometry

639.5

General works

640

Convex sets and geometric inequalities

640.3

Convex polyhedra. Convex polytopes

640.5

Convexity spaces

640.7

Distance geometry

## Differential geometry

Including general theory of surfaces

641

General works, treatises, and textbooks

642

Problems, exercises, examinations

643

Curves on surfaces

644

Minimal surfaces. Nets of plane curves

645

Surfaces determined by relations of curvature, etc.

646

Conformal and other representations of surfaces

Cf. GA110+, Map projection

Cf. QA360, Mapping of regions, conformal representation

648

Deformation of surfaces

648.5

Web geometry

649

Miscellaneous special topics

660

Projective differential geometry



## Geometry

- 670 Differential geometry -- Continued  
 Global differential geometry  
 Cf. QA614+, Global analysis. Analysis on manifolds
- 672 Integral geometry
- 681 Foundations of geometry
- 685 Non-Euclidean geometry
- 689 Generalized spaces  
 Hyperspace
- 691 General works
- 699 Popular works. Fiction  
 Including Flatland, fourth dimension
- Analytic mechanics  
 Class here mathematical works only  
 Cf. QC120+, Descriptive and experimental mechanics  
 Cf. TA349+, Applied mechanics
- 801 Periodicals, societies, congresses, serial collections, yearbooks
- 801.2 Collected works (nonserial)
- 801.5 Dictionaries and encyclopedias
- 801.6 Philosophy
- 802 History  
 Including general history of mechanics
- 803 Newton's Principia and commentaries
- 804 Early works through 1800
- 805 General works, treatises, and advanced textbooks
- 807 Elementary textbooks
- 807.5 Addresses, essays, lectures
- 808 Special aspects of the subject as a whole
- 808.2 Continuum mechanics  
 Cf. QC155.7, Fluid dynamics
- 808.5 Relativistic mechanics
- 808.8 Study and teaching
- 809 Problems, exercises, examinations
- 810 Handbooks, tables, formulas, etc.  
 Statics  
 Cf. TA351, Engineering
- 821 General works, treatises, and textbooks
- 823 Composition and resolution of forces at a point  
 Attractions and potential  
 Cf. QA404.7+, Potential theory  
 Cf. QC570+, Electrostatics
- 825 General works, treatises, and textbooks
- 827 Ellipsoids and other special systems
- 831 Rigid bodies. Forces and couples in three dimensions. Equilibrium
- 835 Chains and flexible surfaces. Catenary
- 839 Geometry of masses. Center of mass. Moments of inertia

## Analytic mechanics -- Continued

## Kinematics

Including composition of motions and displacements,  
relative motions, moving axes, theory of screws

Cf. QA623, Roulettes

Cf. QC231, Kinematics (Physics)

Cf. TJ175, Kinematics of machinery

841

General works

842

Relativistic kinematics

## Dynamics

Cf. QC133+, Descriptive and experimental  
mechanics

Cf. UF820+, Motion of projectiles (Ballistics)

843

Periodicals, societies, congresses, serial  
collections, yearbooks

845

General works, treatises, and advanced textbooks

846

Elementary textbooks

Dynamics of a particle

Cf. QB349+, Celestial mechanics

Cf. QC174.17.P7, Problem of many bodies  
(Quantum theory)

851

General works, treatises, and textbooks

852

Special aspects of the subject as a whole

Including resistance, friction

853

Orbital and constrained motion

855

Motion of surfaces

## Rigid dynamics

861

General works, treatises, and textbooks

862.A-Z

Special systems, A-Z

862.G9

Gyroscope

862.P4

Pendulum

862.P5

Pistons

862.P76

Projectiles

862.T7

Top

863

Miscellaneous special topics

Theory of vibrations. Oscillations

Cf. QA935+, Vibrations of elastic bodies

865

General works

867

Harmonic motion

867.5

Nonlinear oscillations

871

General methods in dynamics

Including Lagrange's equations, Hamilton's  
equations, least action, stability of systems

## Mechanics of deformable bodies

## Fluid mechanics

Cf. QC120+, Descriptive and experimental  
mechanics

Cf. TA357+, Applied fluid mechanics

901

General works, treatises, and textbooks

903

Problems, exercises, examinations

Hydrostatics

905

General works, treatises, and textbooks

- Analytic mechanics  
 Mechanics of deformable bodies  
 Fluid mechanics  
 Hydrostatics -- Continued  
 907 Miscellaneous special topics  
     Including floating bodies, etc.  
     Cf. VM761+, Stability of ships  
 Fluid dynamics. Hydrodynamics  
     Cf. TC160+, Hydraulics  
 911 General works, treatises, and textbooks  
 912 Relativistic fluid dynamics  
 913 Kinematics of fluids. Irrotational motions  
 920 Magneto-hydrodynamics. Magnetofluid dynamics  
     Cf. QC717+, Ion flow dynamics  
     Cf. QC718.5.M36, Plasma physics  
     Cf. QC809.M3, Cosmic physics  
 922 Two-phase flow. Multiphase flow  
 924 Jets and cavities  
 925 Rotating fluids. Vortex motion  
     Cf. QB410, Rotating masses of gravitating  
     fluid  
 927 Wave propagation in fluids. Theory of wave  
     motion  
     Cf. QC223, Mathematical theory of sound  
 929 Viscous fluids  
 929.5 Non-Newtonian fluids  
     Cf. QC189.5.A1+, Rheology  
 930 Gas dynamics. Aerodynamics  
     Cf. QC120+, Descriptive and experimental  
     mechanics  
     Cf. TL570+, Aeronautics  
 Elasticity. Plasticity  
     Cf. QC191, Special properties of matter  
     Cf. TA418+, Mechanical properties of materials  
 931 General works, treatises, and textbooks  
 932 Micropolar elasticity  
 933 Thermoelasticity  
     Cf. TA418.24+, Temperature dependent  
     properties of materials  
 934 Torsion  
 Vibrations of elastic bodies. Wave propagation in  
     elastic solids  
 935 General works  
 937 Impact  
 939 Surface waves

- Astronomy
- 1 Periodicals, societies, congresses, serial collections, yearbooks  
Museums. Exhibitions
- 2.A1 General works  
2.A2-Z By region or country, A-Z  
*Under each country:*  
.x General works  
.x2A-.x2Z Special. By city, A-Z
- 3 Collected works (nonserial)  
Observations  
Including serial collections issued by individual observatories.  
For annual reports, see QB82.A+  
4.A-Z By name of issuing observatory, A-Z  
4.9.A-Z By region or country, A-Z
- 6 Star catalogs  
Including zone observations, etc.  
For catalogs of double stars, multiple stars, binary systems, see QB821  
For catalogs of variable stars, see QB835
- Ephemerides  
For ephemerides of individual planets, see QB611, QB621, etc.  
For ephemerides of planets collectively, see QB603.E6
- 7 Early through 1800  
1801-
- 8.A-Z Nautical and air (or aeronautical) almanacs. By country, A-Z
- 9 Other yearbooks
- General tables
- 11 Early through 1800  
12 1801-
- 14 Dictionaries and encyclopedias
- Communication in astronomy
- 14.2 General works  
14.25 Information services  
14.5 Philosophy
- History
- 15 General works  
Ancient
- 16 General works  
Cf. CE21+, Ancient chronology  
Cf. GN799.A8, Astronomy (Prehistoric archaeology)
- 17 Chinese  
18 Hindu  
19 Assyro-Babylonian, etc.  
Jewish, see QB34
- 20 Egyptian  
21 Greek  
22 Roman

- History -- Continued
- Medieval
    - Including Arabic astronomy
    - 23 General works
    - Astrology
    - 25 History
      - Cf. BF1671, Occult sciences
    - 26 Medieval works
      - Cf. BF1680+, Occult sciences
      - Modern astrology, see BF1651+
    - Modern
      - 28 General works
      - 29 Renaissance through 1700
      - 31 18th century
      - 32 19th-20th centuries
      - 33.A-Z By region or country, A-Z
      - 34 Jewish astronomy
      - Maori astronomy, see DU423.A85
    - 34.5 Women in astronomy. Women astronomers
    - Biography
      - 35 Collective
      - 36.A-Z Individual, A-Z
        - e.g.
        - 36.B8 Brahe
        - 36.C8 Copernicus
        - 36.G2 Galileo
    - 41 Early works through 1700
      - Cf. GA6, Cosmography
      - Cf. VK551, Navigation (Early works)
    - General works, treatises, and advanced textbooks
      - Cf. QB500, Descriptive astronomy
    - 42 1701-1800
    - 43 1801-1969
    - 43.2 1970-
    - Popular works
      - 44 Through 1969
      - 44.2 1970-
    - 45 Elementary textbooks
    - 46 Juvenile works
      - Cf. QB63, Stargazers' guides
    - 47 Special aspects of the subject as a whole
    - 51 Addresses, essays, lectures
    - 51.3.A-Z Special topics, A-Z
      - 51.3.E43 Electronic data processing
      - 51.3.I45 Imaging systems
    - 51.5 Astronomy as a profession
    - 52 Miscellany and curiosa
    - 54 Extraterrestrial life
      - Cf. CB156, Terrestrial, evidence of interplanetary voyages
    - (55) Astronomical myths, legends, and superstitions
      - see GR625
    - Study and teaching. Research

- Study and teaching. Research -- Continued
- 61 General works
- 62 Outlines, syllabi
- 62.5 Problems, exercises, examinations
- 62.7 Laboratory manuals
- 63 Stargazers' guides
- 64 Observers' handbooks  
Cf. TL796.8, Artificial satellites
- 65 Atlases and charts
- 66 Astronomical globes  
Cf. GA12, Manual for globes
- 67 Miscellaneous models
- 68 Pictorial works and atlases
- Planetariums  
Including orreries
- 70 General works
- 71.A-Z By region or country, A-Z  
*Under each country:*  
.x General works  
.x2A-.x2Z Individual planetariums. By city, A-Z
- Observatories  
Cf. QB500.267+, Orbiting astronomical observatories
- 81 General works
- 82.A-Z By region or country, A-Z  
*Under each country:*  
.x General works  
.x2A-.x2Z Individual observatories. By place, A-Z  
Including description, history, annual reports, etc.
- 84 Observatory buildings  
Including domes, piers, rising floors, chairs
- Astronomical instruments  
Including description, theory, adjustment
- 84.5 Periodicals, societies, congresses, serial collections, yearbooks
- Biography of instrument makers
- 84.7 Collective
- 84.75.A-Z Individual, A-Z
- 85 Early. Astrolabes, etc.  
Including descriptions of early observatories
- Modern
- 85.8 History
- 86 General works, treatises, and textbooks
- 86.4 Catalogs
- 88 Telescopes. Objectives. Mirrors  
Including homemade telescopes, optics, accessories  
Cf. QB479.2, Radio telescopes  
Cf. QB500.268, Hubble Space Telescope
- 97 Equatorial mountings. Driving clocks. Siderostats.  
Heliostats. Coelostats

- Astronomical instruments
  - Modern -- Continued
    - 101 Meridian instruments
      - Including transit circle, zenith telescope, visual and photographic
    - 103 Extra-meridian instruments
      - Including altazimuth, almucantar, transit out of meridian, vertical circle
    - 105 Portable instruments
      - Including transit, solar compass
      - Cf. VK583, Sextant
    - 107 Clocks. Chronometers. Chronographs
      - For use of chronograph in ballistics, see UF830.C4
    - 111 Eyepieces
    - 113 Micrometers
    - 115 Levels. Artificial horizons. Illumination, etc.
  - Astronomical photography
    - 121 General works
    - 121.5 Equipment and supplies
    - 125 Television in astronomy
    - Electronics in astronomy
      - 127 General works
      - Equipment and supplies
        - 127.2 General works
        - 127.4 Charge coupled devices
    - 135 Astronomical photometry
    - Astronomical spectroscopy, see QB465
    - 135.5 Aeronautics in astronomy
      - Including balloons, etc.
    - 136 Space astronomy
      - Including astronautics in astronomy
    - 139 Telegraphic codes for transmission of astronomical data
    - Practical and spherical astronomy
      - Cf. QB66, Use of globes
      - Cf. VK551+, Nautical astronomy
    - 140 Periodicals, societies, congresses, serial collections, yearbooks
    - 143 Dictionaries and encyclopedias
    - 144 Early works through 1800
    - 145 General works, treatises, and textbooks
    - 147 Celestial sphere and coordinates
    - 149 Statistical astronomy
      - Correction and reduction of observations
        - 151 General works, treatises, and textbooks
        - 153 Personal equation
          - Involving apparatus for its determination
      - 154 Errors of adjustment, etc.
      - Reduction to center of earth
        - Refraction
          - 155 Theory and determination of constant
          - 156 Tables
          - 159 Parallax

- Practical and spherical astronomy
- Correction and reduction
    - of observations -- Continued
    - Correction for movement of earth and equinoxes
      - Including determination of constants by observation
  - 161 General works, treatises, and textbooks
  - 163 Aberration
    - Cf. QC671, Electromagnetic theory
  - 165 Precession and nutation
  - 167 Annual parallax
  - 168 Star reduction (from mean to apparent place)
  - 169 Position of pole
  - 171 Determination of the ecliptic
  - Prediction of eclipses, occultations and transits
    - 175 General works
    - 185 Miscellaneous phenomena at occultations and transits
  - Geodetic astronomy
    - Including determination of geographical positions
  - 201 General works, treatises, and textbooks
  - Observations
    - Cf. QB296.A1+, Observations (Geodesy)
  - 205.A1 Periodicals, societies, congresses, serial collections, yearbooks
  - 205.A2 General works, treatises, and textbooks
  - 205.A3-Z By region or country, A-Z
    - e.g.
    - Mexico
      - 205.M6 General works
      - 205.M7A-Z Local, A-Z
    - United States
      - 205.U4-U5 General works
      - 205.U6A-Z By region or state, A-Z
      - 205.U7A-Z By city, A-Z
  - 207 Azimuth. Determination of meridian
  - Time
    - Cf. BD638, Cosmology
    - Cf. BF468, Psychology
    - Cf. GN476.3, Anthropology
    - Cf. QC173.59.T5, Time dilatation
    - For historical chronology, calendar, etc., see CE1+
  - 209 General works
  - 209.5 Juvenile works
  - Time service
    - 210.A1 General works, treatises, and textbooks
    - 210.A3-Z By region or country, A-Z
  - 211 Sidereal and solar, and their conversion
  - 213 Methods of finding the time
  - 214 Instruments for measuring the time
    - Including hourglasses
    - Cf. TS540+, Watches and clocks
  - 215 Sundials and dialing
  - 216 Sunrise and sunset



- Practical and spherical astronomy
- Time -- Continued
- 217 Equation of time
- 221 Time signals, etc.
- 223 Systems and standards
- 224 Prime meridians
- Longitude and latitude
- 224.5 General works, treatises, and textbooks
- 224.7.A-Z By region or country, A-Z
- Longitude
- 225 Methods of determination
- 228 Tables and ephemerides
- Observations
- 229 General works, treatises, and textbooks
- 229.5.A-Z By region or country, A-Z
- Latitude
- 231 Methods of determination
- 233 Tables and ephemerides
- Observations
- 235 General works, treatises, and textbooks
- 235.5.A-Z By region or country, A-Z
- 237 Variation of latitude
- Geodesy
- 275 Periodicals, societies, congresses, serial collections, yearbooks
- 279 Dictionaries and encyclopedias
- 280 Collected works (nonserial)
- 280.5 History
- 281 General works, treatises, and textbooks
- 281.5 Geodesy as a profession
- 283 Mathematical theory of the figure of the earth
- Cf. QA827, Attractions of ellipsoids
- Cf. QB331, Isostasy
- Cf. QB410, Rotating masses of fluid
- 285 Popular works
- 286 Juvenile works
- 287 Addresses, essays, lectures
- 291 Special arc measures
- Observations
- 296.A1 General works, treatises, and textbooks
- 296.A3-Z By region or country, A-Z
- 297 Data processing
- Biography
- 297.9 Collective
- 298.A-Z Individual, A-Z
- e.g.
- 298.H4 Hassler
- 298.R8 Rylke
- Study and teaching. Research
- 299 General works
- 299.5.A-Z By region or country, A-Z

- Geodesy -- Continued
- Geodetic surveying  
 Cf. TA501 +, Plane surveying  
 Cf. VK588 +, Hydrographic surveying
- 301 General works
- 303 Base measuring  
 Including apparatus  
 Cf. QC101, Standards of length
- 311 Triangulation  
 Cf. TA583, Plane surveying
- 321 Theory and computation. Tables, etc.  
 Cf. QA275, Least squares
- 325 Traverse surveying  
 Cf. TA585, Plane surveying
- Instruments  
 Cf. TA562 +, Surveying instruments, methods,  
 etc.
- 328.A1 General works, treatises, and textbooks
- 328.A2-Z Special, A-Z
- 328.G4 Geodimeter
- 328.P7 Prismatic astrolabe
- 328.T4 Tellurometer
- Gravity determinations
- 330 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 331 Theory and description of apparatus. Isostasy  
 Cf. QA862.P4, Dynamics of pendulum
- Observations  
 Including length of seconds, pendulum, etc.
- 334 General works, treatises, and textbooks
- 335.A-Z By region or country, A-Z
- 336 Data processing
- Gravity anomalies
- 337 General works, treatises, and textbooks
- 337.5.A-Z By region or country, A-Z
- 338 Plumbline deflections
- 339 Disturbances  
 Including lunar, solar, earth movements
- 341 Constant of gravitation. Mean density of the earth
- 343 Satellite geodesy. Artificial satellites in geodesy  
 Cf. TL798.G4, Geodetic satellites
- Theoretical astronomy and celestial mechanics  
 Cf. TL1050 +, Astrodynamics
- 349 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 350 Collected works
- 350.5 History
- 351 General works, treatises, and textbooks
- 353 Addresses, essays, lectures
- Calculation of orbits  
 For orbits of individual planets, see QB371 +,  
 QB603.M6
- 355 General works, treatises, and textbooks

- Theoretical astronomy and celestial mechanics
- Calculation of orbits -- Continued
- 355.3 Kepler's laws
- 355.5 Kepler's equation
- 357 Comets (General)
- For orbits of individual comets see QB273 +
- Perturbations
- Planetary theory
- 361 General works, treatises, and textbooks
- 361.9 Special aspects of the subject as a whole
- 362.A-Z Special topics, A-Z
- 362.F47 Few-body problem
- 362.M3 Many body problem
- 362.T5 Three body problem
- 362.T9 Two body problem
- 369 Tables and observations
- Individual planets
- Including tables and orbits
- 371 Mercury
- 372 Venus
- 374 Sun's apparent motion
- 376 Mars
- Asteroids. Minor planets
- 377 General works, treatises, and textbooks
- Individual
- 378.A-Z By name, A-Z
- 379 By number, if unnamed
- 384 Jupiter and Saturn
- 387 Uranus
- 388 Neptune
- 389 Ultra-Neptunian planets
- Lunar theory
- 391 General works, treatises, and textbooks
- 391.9 Special aspects of the subject as a whole
- 392.A-Z Special topics, A-Z
- 392.C3 Capture of the moon by the earth
- 392.I5 Inequalities of the moon's motion
- 392.O3 Occultations of stars
- 397 Observations
- 399 Tables, charts, diagrams, etc.
- Satellites
- Including individual planetary satellites
- Cf. QB603.R55, Planetary rings
- Cf. TL796 +, Artificial satellites
- 401 General works, treatises, and textbooks
- 401.5 Juvenile works
- 403 Satellites of Mars
- 404 Satellites of Jupiter
- 405 Satellites and ring system of Saturn
- 406 Satellites of Uranus
- 407 Satellites of Neptune
- 410 Figures of equilibrium of rotating masses of fluid

- Theoretical astronomy  
and celestial mechanics -- Continued
- Theory of tides  
Cf. GC300+, Oceanography  
Cf. QC809.E2, Earth tides  
Cf. VK600+, Tidetables
- 414 Early works through 1800  
General works, treatises, and textbooks
- 415 1801-1969
- 415.2 1970-
- 416 Special aspects of the subject as a whole
- 418 Dictionaries and encyclopedias
- 419 Miscellany and curiosa  
Instruments, see GC306
- 421 Theory of double star systems
- Cosmochemistry
- 450 General works
- 450.5 Cosmic abundance
- Astrogeology
- Cf. QB592, Lunar geology  
Cf. QB603.G46, Planetary geology
- 455 General works
- 455.5 Extraterrestrial seismology
- 456 Multiring basins
- Astrophysics (General)
- 460 Periodicals, societies, congresses, serial  
collections, yearbooks
- 460.15 Collected works (nonserial)
- Biography
- 460.7 Collective
- 460.72.A-Z Individual, A-Z
- 461 General works, treatises, and textbooks
- 461.3 Popular works
- 461.5 Addresses, essays, lectures
- 462.5 Radio astrophysics
- 462.6 Molecular astrophysics
- 462.65 Relativistic astrophysics
- Plasma astrophysics
- 462.7 General works
- 462.72 Double layers
- 462.8 Cosmic magnetic fields
- Nuclear astrophysics
- 463 Periodicals, societies, congresses, serial  
collections, yearbooks
- 463.15 Collected works (nonserial)
- 464 General works, treatises, and textbooks
- 464.15 Particle acceleration
- 464.2 Neutrino astrophysics
- 465 Astronomical spectroscopy  
Cf. QB551, Spectroscopy of sun and eclipses  
Cf. QB870+, Stellar spectroscopy
- 466.A-Z Other topics, A-Z
- 466.A25 Accretion

- 466.C45  
 466.C67  
 466.D58  
 466.E65  
 466.F58  
 466.G38  
 466.J46  
 466.P67
- Astrophysics (General)  
 Other topics, A-Z -- Continued  
 Chaotic behavior in systems  
 Cosmochronology  
 Disks  
 Equations of state  
 Fluid dynamics  
 Gas dynamics  
 Jets  
 Positronium
- Non-optical methods of astronomy  
 468  
 General works  
 Infrared astronomy  
 470.A1  
 Periodicals, societies, congresses, serial collections, yearbooks  
 470.A5-Z  
 General works, treatises, and textbooks  
 Gamma ray astronomy  
 471.A1  
 Periodicals, societies, congresses, serial collections, yearbooks  
 471.A5-Z  
 General works, treatises, and textbooks  
 471.7.A-Z  
 Special topics, A-Z  
 471.7.B85  
 Bursts  
 X-ray astronomy  
 472.A1  
 Periodicals, societies, congresses, serial collections, yearbooks  
 472.A5-Z  
 General works, treatises, and textbooks  
 473  
 Addresses, essays, lectures  
 474  
 Ultraviolet astronomy  
 Radio astronomy  
 Cf. QB860, Quasars  
 475.A1  
 Periodicals, societies, congresses, serial collections, yearbooks  
 475.A15  
 Collected works (nonserial)  
 475.A2  
 Dictionaries and encyclopedias  
 History  
 475.A25  
 General works  
 475.A28A-Z  
 By region or country, A-Z  
 476.5  
 General works, treatises, and advanced textbooks  
 477  
 Popular works  
 478  
 Juvenile works  
 478.5  
 Addresses, essays, lectures  
 Observatories  
 479.A2  
 General works  
 479.A5-Z  
 By region or country, A-Z  
     *Under each country:*  
     .x                      *General works*  
     .x2A-.x2Z            *Individual observatories. By name, A-Z*
- 479.2  
 Radio telescopes  
 479.3  
 Radio interferometers  
 479.4  
 Millimeter astronomy  
 Radio sources  
 479.5  
 General works

- Non-optical methods of astronomy  
 Radio astronomy  
 Radio sources -- Continued  
 479.55.A-Z Individual radio sources or types of radio sources, A-Z  
 479.55.C93 Cygnus A  
 479.55.H68 Hot spots  
 479.55.S88 Superluminal  
 480 Radar in astronomy  
 Descriptive astronomy  
 Periodicals, societies, congresses, serial collections, yearbooks, see QB1  
 General works, treatises, and textbooks, see QB42 +  
 Universe. Space. Space sciences  
 Cf. QB980 +, Cosmology  
 Cf. TL787 +, Astronautics. Space travel  
 495 Periodicals, societies, congresses, serial collections, yearbooks  
 496 Collected works  
 497 Dictionaries and encyclopedias  
 497.2 Communication in space sciences  
 History  
 498 General works  
 498.2.A-Z By region or country, A-Z  
 500 General works, treatises, and advanced textbooks  
 500.22 Juvenile works  
 500.24 Addresses, essays, lectures  
 500.25 Special aspects of the subject as a whole  
 500.26.A-Z Special topics, A-Z  
 500.26.D38 Data processing  
 500.26.I58 International cooperation  
 500.26.S67 Space optics  
 Study and teaching. Research  
 Including exploration of outer space  
 500.262 General works  
 500.264 Experiments  
 500.266.A-Z By region or country, A-Z  
 Orbiting astronomical observatories  
 500.267 General works  
 500.268 Hubble Space Telescope  
 500.28 Northern sky  
 500.3 Southern sky  
 Solar system  
 500.5 Periodicals, societies, congresses, serial collections, yearbooks  
 501 General works, treatises, and textbooks  
 501.2 Popular works  
 501.3 Juvenile works  
 501.5 Study and teaching. Research  
 502 Miscellany and curiosa  
 503 Age of solar system. Origin of solar system  
 505 Physical conditions  
 Including atmospheres, resisting medium, etc.

- Descriptive astronomy  
 Solar system -- Continued
- 507 Proper motion in space  
 Solar parallax and related constants
- 508 General works  
 Transit of Venus
- 509 General works, treatises, and textbooks
- 511 1761 and 1769 transits
- 512 1874 transit
- 513 1882 transit
- 515 Transit of Mercury
- 516 Observations of Mars and asteroids
- 518 Other methods
- Sun
- 520 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 521 General works, treatises, and textbooks
- 521.4 Popular works
- 521.5 Juvenile works
- 521.6 Addresses, essays, lectures
- 522 Tables, etc.  
 Cf. QB374, Perturbations
- 523 Mass, diameter, rotation, etc.  
 Solar activity
- 524 General works
- 525 Sunspots  
 Cf. BF1729.S92, Astrology
- 526.A-Z Other special topics, A-Z
- 526.A37 Active regions
- 526.C9 Cycles
- 526.F3 Faculae
- 526.F6 Flares
- 526.F64 Flocculi. Plages  
 Plages, see QB526.F64
- 526.P7 Prominences
- 528 Atmosphere, chromosphere
- 529 Corona. Solar wind
- 531 Radiation, temperature, etc.  
 Cf. QC910.2+, Solar radiation in  
 meteorology
- Other special topics, A-Z
- 539.A-Z Composition
- 539.C6 Electric field
- 539.E4 Evolution
- 539.E8 Granulation
- 539.G7 Interior
- 539.I5 Magnetic fields
- 539.M23 Noise storms
- 539.N6 Nuclear reactions
- 539.N8 Oscillations
- 539.O83 Radio effects
- 539.R3 Size
- 539.S5 Solar neutrinos
- 539.S65

## Descriptive astronomy

## Solar system

## Sun

Other special topics, A-Z -- Continued

539.S655

Solar x-rays

539.T4

Terrestrial-solar relations

540

Miscellany and curiosa

Solar eclipses

Including works on solar and lunar eclipses  
combined

Cf. BL325.E35, Eclipses (Mythology)

541

General works, treatises, and textbooks

541.5

Juvenile works

542

Through 1799

543

1800-1899

Book number = last two figures of the year,  
followed by author number

544

1900-1999

Book number = last two figures of the year,  
followed by author number, e.g. QB544.47U6,  
U.S. National Almanac Office, Total eclipse  
of the sun, May 20, 1947

545

2000-2099

Book number - last two figures of the year,  
followed by author number

551

Spectroscopy of sun and eclipses

579

Lunar eclipses

## Moon

580

Periodicals, societies, congresses, serial  
collections, yearbooks

581

General works, treatises, and textbooks

581.9

Popular works

582

Juvenile works

583

Distance, parallax

585

Rotation, libration, and shape

588

Temperature, radiation, brightness, phases

591

Surface, physical condition, meteorology

592

Lunar geology. Lunar petrology

595

Photographs, maps, drawings

## Planets

Cf. QB54, Extraterrestrial life

Cf. QB401+, Satellites

Cf. QB500.5+, Solar system

Cf. TL799.A+, Flights to special planets

600

Periodicals, societies, congresses, serial  
collections, yearbooks

600.2

Dictionaries and encyclopedias

600.5

Nomenclature, terminology, names

601

General works, treatises, and textbooks

601.9

Popular works

602

Juvenile works

602.9

Special aspects of the subject as a whole

602.95

Data processing



- Descriptive astronomy  
 Solar system  
 Planets -- Continued  
 Special topics, A-Z  
 603.A-Z Atmospheres  
 603.A85 Including meteorology  
 603.C6 Composition  
 603.C7 Cratering  
 603.E6 Ephemerides  
 603.F5 Figures  
 603.G46 Geology  
 603.I53 Internal structure  
 603.I55 Interplanetary medium  
 603.I57 Ionospheres  
 603.M26 Magnetic fields  
 603.M3 Mass  
 603.M6 Motion  
 Including orbits  
 For orbits of individual planets, see QB371 +  
 603.R3 Radiation  
 603.R55 Rings  
 Cf. QB405, Ring system of Saturn  
 603.S6 Spectroscopy  
 603.S95 Surfaces  
 604 Tables, etc.  
 605 Photographs, maps, drawings  
 605.2 Miscellany and curiosa  
 Inferior planets  
 606 General works  
 607 Intramercurial planets  
 611 Mercury  
 Cf. QB515, Transit of Mercury  
 621 Venus  
 Cf. QB509 +, Transit of Venus  
 Earth as a planet. Astronomical geography  
 Cf. QE500 +, Geology  
 630 Periodicals, societies, congresses, serial  
 collections  
 631 General works, treatises, and textbooks  
 631.2 Popular works  
 631.4 Juvenile works  
 632 Origin  
 633 Rotation  
 637 Photographs from space  
 Seasons  
 Cf. GR930, Folklore  
 637.2 General works, treatises, and textbooks  
 637.4 Juvenile literature  
 637.5 Spring  
 637.6 Summer  
 637.7 Autumn  
 637.8 Winter  
 638 Miscellany and curiosa

- Descriptive astronomy  
 Solar system  
 Planets  
 Earth as a planet.  
 Astronomical geography -- Continued  
 638.8 End of the world  
 Superior planets  
 For their satellites, see QB403-QB407  
 639 General works  
 641 Mars  
 651 Asteroids  
 661 Jupiter  
 671 Saturn  
 681 Uranus  
 691 Neptune  
 701 Pluto  
 Comets  
 Cf. QB357, Calculation of orbits  
 717 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 721 General works, treatises, and textbooks  
 721.4 Popular works  
 721.5 Juvenile works  
 721.6 Addresses, essays, lectures  
 722 Catalogs  
 723.A-Z Periodic comets. By name, A-Z  
 723.A7 Arrest's comet  
 723.B5 Biela's comet  
 723.B7 Brooks' comet  
 723.B8 Brorsen's comet (I)  
 723.C6 Comas Sola's comet  
 723.D45 Delavan's comet  
 723.D5 Denning's comet  
 723.E3 Encke's comet  
 723.F2 Faye's comet  
 723.G43 Geddes' comet  
 723.H2 Halley's comet  
 723.H7 Holmes' comet  
 723.L6 Lexell's comet  
 723.M67 Morehouse's comet  
 723.S56 Shoemaker-Levy 9 comet  
 723.T3 Tempel's comet (I)  
 723.T8 Tuttle's comet  
 723.V35 Van Biesbroeck's comet  
 724 Comets before 1700  
 725 1700-1799  
 Book number = last two figures of the year,  
 followed by author number  
 726 1800-1899  
 Book number = last two figures of the year,  
 followed by author number, e.g. QB726.61K8,  
 Kreutz, Heinrich, Untersuchungen über die  
 Bahn des grossen Kometen von 1861

- Descriptive astronomy
  - Solar system
    - Comets -- Continued
      - 1900-1999
        - 727 Book number = last two figures of the year,  
followed by author number
        - 729 Distribution of comets
        - 731 Nature and constitution (before the spectroscope)
        - 732 Nature and constitution (modern views)
        - 738 Meteoroids
      - Meteors
        - 740 Periodicals, societies, congresses, serial  
collections, yearbooks
        - 741 General works, treatises, and textbooks
        - 741.5 Juvenile works
        - 743 Methods of observation and geometrical topics  
Including radiants, altitude, etc.
        - Periodic showers
          - 745 November
          - 746 August
        - 748 Orbits
        - 748.2 Streams
          - Relation between meteors and comets
        - 749 General works
        - 751 Other theories of the origin of meteors
        - 753 Remarkable meteors, fireballs
      - Meteorites
        - Including craters
        - Cf. QE399, Tektites
        - 754.8 Periodicals, societies, congresses, serial  
collections, yearbooks
        - 755 General works, treatises, and textbooks
        - 755.2 Juvenile literature
        - 755.3 Addresses, essays, lectures
        - 755.5.A-Z By region or country, A-Z
        - 756.A-Z Particular meteorites and craters, A-Z
          - 756.A44 Allende meteorite
          - 756.C45 Chinguetti meteorite
          - 756.M4 Meteor Crater (Ariz.)
          - 756.O74 Orgueil meteorite
          - 756.P67 Port Orford meteorite
          - 756.S5 Sikhote-Alin meteorite
          - 756.T8 Tunguska meteorite
        - Meteorite types or classes
          - Iron meteorites. Siderites
            - 757 General works, treatises, and textbooks
            - 757.5.A-Z Special, A-Z
              - 757.5.A73 Ataxites
              - 757.5.H49 Hexahedrites
              - 757.5.O37 Octahedrites
          - Stony meteorites. Aerolites
            - 758 General works, treatises, and textbooks
            - 758.5.A-Z Special, A-Z

- Descriptive astronomy  
 Solar system  
 Meteorites  
   Meteorite types or classes  
     Stony meteorites. Aerolites  
       Special, A-Z -- Continued  
       Achondrites  
       Chondrites  
     Stony-iron meteorites. Siderolites.  
       Intermediates  
 761 Zodiacal light. Counter glow. Gegenschein  
 Spectroscopy of moon, planets, comets, etc.  
 770 Moon  
 775 Planets  
 780 Comets  
 785 Meteors  
 Interstellar matter  
 790 General works  
 791 Cosmic dust  
 791.2 Cosmic grains  
 791.3 Dark matter  
 791.35 Missing mass  
 791.4 Molecular clouds  
 791.5 Interstellar hydrogen  
 791.7 Interstellar magnetic fields  
 792 Circumstellar matter  
 Stars  
   Cf. QB6, Star catalogs  
   Cf. QB870+, Stellar spectroscopy  
 799 Periodicals, societies, congresses, serial  
   collections, yearbooks  
 801 General works, treatises, and textbooks  
 801.6 Popular works  
 801.7 Juvenile works  
 801.8 Addresses, essays, lectures  
 802 Constellation figures. Star names  
   Cf. QB63, Stargazers' guides  
 803 Zodiac  
 805 Particular stars (not A-Z)  
   Cf. QB823, Particular double and multiple  
     stars  
   Cf. QB837, Particular variable stars  
   Cf. QB883, Spectra of special stars  
 806 Stellar evolution  
 806.5 Starbursts  
 807 Astrometry  
   Cf. QB135, Astronomical photometry  
 808 Structure  
 809 Atmospheres  
 Motion  
   Including orbits, velocities, dynamics  
 810 General works  
 811 Proper motion

- Descriptive astronomy  
 Stars -- Continued
- 812 Stellar oscillations
  - 813 Parallax and distance
  - 814 Masses
  - 815 Magnitudes. Photometric catalogs
  - 816 Color
    - Cf. QB829, Color of double stars
  - 817 Radiation. Bolometry
  - 818 Stellar diameters
  - 819 Distribution
    - Including stellar populations
  - Double and multiple stars. Binary systems
    - Cf. QB421, Theory
    - Cf. QB903, Spectroscopy
  - 821 General works, treatises, and textbooks
    - Including observations, catalogs
  - 823 Particular stars (not A-Z)
  - 829 Colors of double stars
  - 830 X-ray binaries
  - Variable stars. Algol systems
    - Cf. QB895, Spectroscopy
  - 833 Periodicals, societies, congresses, serial publications
  - 835 General works, treatises, and textbooks
    - Including observations, catalogs
  - 835.2 Addresses, essays, lectures
  - 836 Magnitude. Photometric catalogs
  - 837 Particular stars or clusters (not A-Z)
  - 837.5 Cataclysmic variable stars
  - 838 Pulsating stars
  - 841 Temporary or new stars
  - 843.A-Z Other particular types of stars, A-Z
    - 843.A12 A stars
    - 843.B12 B stars
    - 843.B25 Be stars
    - 843.B55 Black holes
    - 843.B75 Brightest stars
    - 843.B77 Brown dwarfs
    - 843.C6 Cool stars
    - Coronae Borealis stars R, see QB843.R12
    - 843.D85 Dwarf novae
    - 843.D9 Dwarf stars
    - 843.E2 Early stars
    - 843.F55 Flare stars
    - 843.L85 Luminous blue variables
    - 843.M16 M stars
    - 843.M3 Magnetic stars
    - 843.N12 N stars
    - 843.N4 Neutron stars
    - 843.O12 O stars
    - 843.P42 Peculiar stars
    - 843.P8 Pulsars

## Descriptive astronomy

## Stars

Other particular types of stars, A-Z -- Continued

- 843.R12 R Coronae Borealis stars
- 843.R17 R Scuti stars
- 843.R4 Red dwarfs
- 843.R42 Red giants
- 843.R72 RR Lyrae stars
- 843.S53 Shell stars
- 843.S85 Subgiant stars
- 843.S9 Supergiant stars
- 843.S94 Supermassive stars
- 843.S95 Supernovae
- 843.S96 Symbiotic stars
- 843.T12 T Tauri stars
- 843.W5 White dwarfs
- 843.W6 Wolf-Rayet stars

## Clusters and nebulae

Cf. QB891, Spectroscopy

- 851 General works, treatises, and textbooks  
Including observations, catalogs

## Clusters

- 853 General works
- 853.5 Globular clusters

## Nebulae

- 855 General works
- 855.2 Juvenile works
- 855.5 Planetary nebulae
- 855.55 Gaseous nebulae
- 855.9.A-Z Individual. By name, A-Z
- 855.9.C7 Crab Nebula
- 855.9.O75 Orion Nebula

## Galaxies

- 856 Periodicals, societies, congresses, serial  
collections, yearbooks
- 857 General works
- 857.3 Juvenile works
- 857.5.A-Z Special topics, A-Z
- 857.5.B84 Bulges
- 857.5.D37 Data processing
- 857.5.E96 Evolution
- 857.5.E97 Extragalactic distances
- 857.5.G7 Gravitational lenses
- 857.5.M34 Magnetic fields
- 857.5.M67 Motion in the line of sight
- 857.7 Milky Way galaxy
- 857.72 General works
- 858 Galactic center
- Dwarf galaxies
- Active galaxies
- Including active galactic nuclei
- 858.3 General works
- 858.35 BL Lacertae objects

## Descriptive astronomy

## Stars

## Galaxies -- Continued

858.4  
858.42  
858.5.A-Z  
858.5.M33

Elliptical galaxies  
Spiral galaxies  
Other galaxies. By name, A-Z  
Magellanic Clouds

858.7  
858.8.A-Z  
858.8.V57

Clusters of galaxies  
General works  
Individual. By name, A-Z  
Virgo Cluster

860

## Quasars

## Stellar spectroscopy

870

Periodicals, societies, congresses, serial  
collections

871

General works, treatises, and textbooks

873

Instruments and apparatus

875

Chemical and physical constitution

881

Classification of stars

883

Including classed catalogs

Study of special types of spectra

Including the spectra of special stars

891

Nebulae and clusters

895

Variables and new stars

901

Motion in the line of sight. Radial velocities

903

Spectroscopic observations on double stars

## Cosmogony. Cosmology

Including nebular hypothesis, meteoritic hypothesis,  
glacial cosmogony

Cf. BD493+, Speculative philosophy

Cf. QB503, Origin of solar system

980

Periodicals, societies, congresses, serial  
collections, yearbooks

980.5

Dictionaries and encyclopedias

981

General works, treatises, and textbooks

982

Popular works

983

Juvenile works

985

Addresses, essays, lectures

991.A-Z

Special topics, A-Z

991.B54

Big bang theory

991.C64

Cosmic background radiation

Including cosmic ripples

991.C66

Cosmological distances

991.E53

End of the universe

991.E94

Expanding universe

991.G73

Great Attractor

991.I54

Inflationary universe

991.N34

Naked singularities

QB

- Physics
- Cf. QH505, Biophysics
  - Cf. R895+, Medical physics
  - Cf. S588.4+, Agricultural physics
  - 1 Periodicals, societies, congresses, serial collections, yearbooks
  - 3 Collected works (nonserial)
  - 5 Dictionaries and encyclopedias
  - Communication in physics
  - 5.3 General works
  - 5.45 Physics literature
  - 5.5 Abstracting and indexing
  - 5.52 Language. Authorship
  - Philosophy. Methodology
    - For relativity physics, see QC173.5+
    - For unified field theories, see QC173.68+
  - 5.56 Periodicals, societies, congresses, serial collections, yearbooks
  - 5.58 Collected works (nonserial)
  - 6 General works, treatises, and textbooks
  - 6.2 Addresses, essays, lectures
  - 6.4.A-Z Special topics, A-Z
  - 6.4.C3 Causality
  - 6.4.C56 Coherent state
  - 6.4.C58 Constraints
  - 6.4.C6 Continuity. Continuum
  - 6.4.D46 Determinism
    - Cf. QC174.17.H4, Heisenberg principle
  - 6.4.D5 Dialectical materialism
  - 6.4.D8 Dualism
  - 6.4.F58 Fluctuations
  - 6.4.R42 Reality
  - 6.4.R43 Reductionism
  - 6.8 Nomenclature, terminology, notation, abbreviations
  - History
  - 6.9 Periodicals, societies, congresses, serial collections, yearbooks
  - 7 General works
  - 7.5 Addresses, essays, lectures
  - 9.A-Z By region or country, A-Z
  - Biography
  - 15 Collective
  - 16.A-Z Individual, A-Z
    - e.g.
    - Curie, Marie and Pierre, see QD22.C8
    - Einstein
    - Newton
  - 16.2 Directories
  - Early works
  - 17 1501-1700
  - 19 1701-1800



- Mathematical physics  
 Cf. QC173.96+, Quantum theory  
 Cf. TA329+, Engineering mathematics  
 For mathematical theory without practical applications, see QA401+
- 19.2 Periodicals, societies, congresses, serial collections, yearbooks
- 19.3 Collected works (nonserial)
- History
- 19.6 General works
- 19.7.A-Z By region or country, A-Z
- 20 General works, treatises, and textbooks
- 20.5 Addresses, essays, lectures
- 20.6 Special aspects of the subject as a whole
- 20.7.A-Z Special topics, A-Z
- 20.7.A34 Adiabatic invariants
- 20.7.A4 Algebraic logic
- 20.7.A5 Analysis  
 Cf. QA401+, Analytical methods for physical problems
- 20.7.A85 Asymptotic theory
- 20.7.B54 Bifurcation theory
- 20.7.B58 Bose algebras
- 20.7.B6 Boundary value problems
- 20.7.C14 C
- 20.7.C28 Calculus of tensors
- 20.7.C3 Calculus of variations
- 20.7.C36 Catastrophes
- 20.7.C55 Clifford algebras
- 20.7.C6 Correlation
- 20.7.C63 Coupled problems
- 20.7.D4 Decomposition method
- 20.7.D43 Density functionals
- 20.7.D47 Difference equations
- 20.7.D5 Differential equations
- 20.7.D516 Differential games
- 20.7.D52 Differential geometry
- 20.7.D55 Dimensional analysis
- 20.7.E4 Electronic data processing
- 20.7.E48 Embedding theorems
- 20.7.E88 Evolution equations
- 20.7.F56 Finite element method
- 20.7.F67 Fourier transformations
- 20.7.F84 Functional analysis
- 20.7.F85 Functional integration
- 20.7.F87 Functions, Special
- 20.7.G44 Geometry
- 20.7.G55 Global analysis
- 20.7.G7 Graph theory
- 20.7.G76 Group theory  
 Cf. QC174.17.G7, Group theoretical methods for quantum mechanical problems
- 20.7.H35 Hamiltonian systems

- Mathematical physics  
 Special topics, A-Z -- Continued
- 20.7.I33 Idempotents
  - 20.7.I58 Integral equations
  - 20.7.K56 Knot polynomials
  - 20.7.L54 Lie algebras. Lie-admissible algebras
  - 20.7.M24 Manifolds
  - 20.7.M27 Mathematical optimization
  - 20.7.M3 Matrix theory
  - 20.7.M43 Measure theory
  - 20.7.M65 Monte Carlo method
  - 20.7.N58 Nonassociative algebras
  - 20.7.N6 Nonlinear theories
  - 20.7.O65 Operator algebras
  - 20.7.O75 Orthogonal functions and polynomials
  - 20.7.P3 Padé approximant
  - 20.7.P47 Perturbation
  - 20.7.P67 Potential theory
  - 20.7.P7 Probabilities
  - 20.7.R4 Relaxation methods
  - 20.7.R43 Renormalization
  - 20.7.S3 Scattering theory
  - 20.7.S54 Singularities
  - 20.7.S64 Special functions, see QC20.7.F87
  - 20.7.S65 Spectral theory
  - 20.7.S68 Spinor analysis
  - 20.7.S8 Stability
  - 20.7.S8 Stochastic processes
  - 20.7.T65 Tensor analysis, see QC20.7.C28
  - 20.7.V4 Topology
  - 20.7.W53 Vector analysis
  - 20.8 WKB approximation
  - 20.815.A-Z Study and teaching. Research
    - 20.82 General works
    - 20.85 By region or country, A-Z
    - Problems, exercises, examinations
    - Handbooks, tables, formulas, etc.
  - 21 General works, treatises, and advanced textbooks
    - 21.2 1801-1969
    - 23 1970-
    - 24 Elementary textbooks
    - 24.5 Pictorial works and atlases
    - 25 Popular works
    - 26 Juvenile works
    - 27 Recreations, home experiments, etc.
    - 28 Anecdotes, facetiae, satire, etc.
    - 29 Addresses, essays, lectures, see QC71
    - Special aspects of the subject as a whole
    - Physics as a profession. Vocational guidance
    - Study and teaching. Research
      - For programmed texts, see QC21 +
      - General works
      - Outlines, syllabi

- 32 Study and teaching. Research -- Continued  
 33 Problems, exercises, examinations  
 Experiments  
     Cf. QC26, Home experiments  
 Laboratory manuals  
     Elementary  
 35         General works  
 36         Laboratory blanks  
 37         Advanced  
 39 Physical measurements (General)  
     Including theory and methods  
     Cf. QC81+, Weights and measures  
     Cf. T50, Technical mensuration  
 39.5 Juvenile works  
 41 Laboratory technique  
     By region or country  
         United States  
             General works  
 44              By region or state, A-Z  
 45.A-Z              *Under each state:*  
                 .x              General works  
                 .x2A-.x2Z      Local, A-Z  
                 .x3A-.x3Z      Special schools or universities. By  
                                     name, A-Z  
 47.A-Z              Other regions or countries, A-Z  
                 *Under each country:*  
                 .x              General works  
                 .x2A-.x2Z      Local, A-Z  
                 .x3A-.x3Z      Special schools or universities. By  
                                     name, A-Z  
 48              Developing countries  
     Laboratories  
         Cf. QC100.A2+, Standardizing bureaus  
         Cf. QC541.A1+, Electric laboratories  
 51.A1              General works  
 51.A3-Z             By region or country, A-Z  
                 *Under each country:*  
                 .x              General works  
                 .x2A-.x2Z      Individual laboratories. By name, A-Z  
 52              Data processing  
     Instruments and apparatus (General)  
         For instruments of special fields, see the field  
         Cf. QC100.5+, Weights and measures  
         Cf. QC101+, Instruments for measurement of  
             length, area, weight, etc.  
         Cf. QC370.5+, Optical instruments  
         Cf. QC875.5+, Meteorological instruments  
 53              General works  
 55              Juvenile works  
 Museums. Exhibitions  
 60.A1              General works

- Museums. Exhibitions -- Continued
- 60.A2-Z By region or country, A-Z  
*Under each country:*  
*.x General works*  
*.x2A-.x2Z Special. By city, A-Z*
- 61 Handbooks, tables, formulas, etc.
- 71 Addresses, essays, lectures  
 Force and energy (General)  
 Cf. QC310.15+, Thermodynamics  
 Philosophy, see QA843+
- 72 History
- 73 General works, treatises, and textbooks
- 73.4 Juvenile works
- 73.6 Study and teaching. Research
- 73.8.A-Z Special topics, A-Z
- 73.8.C6 Conservation of energy
- 73.8.C65 Correlation of forces
- 73.8.E53 Energy transfer
- 73.8.M4 Mechanical advantage
- 73.8.W65 Work
- 75 Miscellany and curiosa  
 Weights and measures  
 Class here works on the means of expressing quantities of length, area, volume, capacity, and mass (or weight) in terms of standard units. For works on units used in the measurement of other quantities, including velocity, pressure, energy, temperature, see the particular field of application  
 Cf. BM509.W4, Weights and measures in the Talmud  
 Cf. BS680.W4, Weights and measures in the Bible  
 Cf. HF5711+, Tables of weights and measures (Business mathematics)  
 Cf. QA465, Mensuration (Mathematics)  
 Cf. QB214, Time measuring instruments  
 Cf. QC535+, Electric measurements
- 81 Periodicals, societies, congresses, serial collections, yearbooks  
 For governmental standardizing bureaus, including serial publications issued by them, see QC100.A3+
- Museums. Exhibitions
- 81.5.A1 General works
- 81.5.A2-Z By region or country, A-Z  
 Apply table at QC60.A2-Z
- 82 Dictionaries and encyclopedias  
 History
- 83 General works
- 84 Ancient
- 85 Medieval
- 86 Modern
- 87 Early works through 1800

- Weights and measures -- Continued
- 88 General works, treatises, and advanced textbooks  
Including works with an alphabetical arrangement of countries
- 89.A-Z By region or country, A-Z  
*Under each country:*  
.x General works  
.x2A-.x2Z Local, A-Z
- 90 Elementary textbooks
- 90.5 Popular works
- 90.6 Juvenile works  
Special systems  
Metric system. International system (SI)  
Cf. T50.5, Metric system in industry
- 90.8 Periodicals, societies, congresses, serial collections, yearbooks
- 91 General works, treatises, and textbooks
- 92.A-Z By region or country, A-Z  
Apply table at QC89.A-Z
- 92.2 Popular works
- 92.5 Juvenile works
- 92.6 Addresses, essays, lectures
- 93 Study and teaching. Research
- 94 Conversion tables  
International system, see QC90.8 +
- 96 Other systems (not A-Z)
- 97 Study and teaching. Research
- 99 Miscellany and curiosa  
Including pyramid metrology  
Standards (General). Governmental standardizing bureaus
- 100.A2 General works, treatises, and textbooks
- 100.A3-Z By region or country, A-Z  
Measuring instruments (General)
- 100.5 General works
- 100.8 Catalogs  
Measurement of special quantities  
Including instruments used in measurement
- 101 Length  
Standards
- 102 Measurement and instruments
- 102.5 Thickness  
Including micrometers  
Area, see QA81
- 103 Angles  
Including goniometers  
Cf. QA482, Plane geometry  
Cf. TA603, Surveying
- 104 Volume
- 105 Mass and weight  
Standards

- Weights and measures  
 Measurement of special quantities  
 Mass and weight -- Continued  
 Measurement  
 Cf. QC172+, Atomic mass  
 Cf. QC454.M3, Mass spectrometry  
 106 General works  
 107 Weighing instruments, balances, scales, etc.  
 Cf. TS410, Manufactures  
 Density and specific gravity  
 111 General works  
 114 Tables, etc.
- Descriptive and experimental mechanics  
 Cf. QC71.82+, Force and energy (General)  
 Cf. QC176+, Solid state physics  
 Cf. TA349+, Applied mechanics  
 For theoretical and analytical mechanics, see QA801+  
 120 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 121 Collected works (nonserial)  
 121.6 Dictionaries and encyclopedias  
 121.8 Nomenclature, terminology, notation, abbreviations  
 History  
 For general history of mechanics, see QA802  
 122 General works  
 122.2.A-Z By region or country, A-Z  
 123 Early works through 1800  
 General works, treatises, and advanced textbooks  
 125 1801-1969  
 125.2 1970-  
 127 Elementary textbooks  
 127.3 Popular works  
 127.4 Juvenile works  
 127.6 Addresses, essays, lectures  
 Study and teaching. Research  
 128 General works  
 129 Problems, exercises, examinations  
 129.5 Laboratory manuals  
 131 Special aspects of the subject as a whole  
 Dynamics. Motion  
 Cf. QA843+, Analytic mechanics  
 133 General works, treatises, and textbooks  
 133.5 Juvenile works  
 135 Kinematics  
 136 Vibrations  
 Cf. QA865+, Analytic mechanics (Dynamics)  
 Cf. QA935+, Vibrations of elastic bodies  
 Cf. QC231, Sound  
 Cf. TA355, Engineering  
 137 Inertia  
 Including Mach's principle

- Descriptive and experimental mechanics  
 Dynamics. Motion -- Continued  
 137.5 Velocity. Speed (General)  
     Cf. QC233, Velocity of sound  
     Cf. QC407, Velocity of light  
 Fluids. Fluid mechanics  
     Including liquids  
     Cf. QA901+, Analytic mechanics  
     Cf. TA357+, Applied fluid mechanics  
 138 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 139 Dictionaries and encyclopedias  
 140 Nomenclature, terminology, notation, abbreviations  
 141 History  
 142 Early works through 1500  
     General works, treatises, and textbooks  
     143 1501-1700  
     144 1701-1800  
     145 1801-1969  
     145.2 1970-  
     145.24 Juvenile works  
     145.26 Addresses, essays, lectures  
     145.28 Study and teaching  
     145.3 Handbooks, tables, formulas, etc.  
     145.4.A-Z Special properties of liquids, A-Z  
     145.4.A25 Acoustic properties  
     145.4.C6 Compressibility  
     145.4.D5 Diffusion  
     145.4.E45 Electric properties  
     145.4.E9 Expansion  
     145.4.M27 Magnetic properties  
     145.4.O6 Optical properties  
     145.4.P73 Pressure  
     145.4.T5 Thermal properties  
     145.4.V5 Viscosity  
     145.45.A-Z Special liquefied gases, A-Z  
     145.45.A75 Argon  
     145.45.F5 Fluorine  
     145.45.H4 Helium  
     145.45.H9 Hydrogen  
     145.48.A-Z Special liquids, A-Z  
     145.48.P6 Polywater  
     145.48.S9 Supercooled liquids  
 Hydrostatics. Floating bodies  
     Cf. QC183, Surface tension  
     Cf. TC165+, Technical hydraulics  
     Cf. TJ836+, Fluid power technology  
 145.5 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 145.7 Collected works (nonserial)  
 145.8 Dictionaries and encyclopedias  
 145.9 Nomenclature, terminology, notation, abbreviations  
 147 General works, treatises, and textbooks

- Descriptive and experimental mechanics  
 Fluids. Fluid mechanics  
   Hydrostatics. Floating bodies -- Continued  
 147.5      Juvenile works  
 148        Addresses, essays, lectures  
           Study and teaching. Research  
 148.2      General works  
 148.24     Laboratory manuals  
 148.4      Instruments and apparatus  
           Including hydrometers, flowmeters  
 Fluid dynamics. Hydrodynamics  
   Cf. QA911 +, Analytic mechanics  
   Cf. TC171 +, Technical hydraulics  
   Cf. TJ266 +, Turbine engineering  
   Cf. TP156.F6, Chemical engineering  
 150        Periodicals, societies, congresses, serial  
           collections, yearbooks  
 151        General works, treatises, and textbooks  
 151.5      Addresses, essays, lectures  
 151.7      Special aspects of the subject as a whole  
 152        Incompressible fluids  
 152.5      Compressible fluids  
 153        Nonhomogeneous fluids  
 154        Viscous fluids  
           Cf. QA929, Analytic mechanics  
           Cf. QC189.5.A1 +, Rheology, Non-Newtonian  
           fluids  
 155        Flows in porous media  
 155.5      Flows in viscous media  
 155.7      Flows in continuous media  
           Cf. QA808.2, Analytic mechanics  
   Quantum and relativistic hydrodynamics, see QA912  
   Magentohydrodynamics (Analytic mechanics), see QA920  
   Magentohydrodynamics (Plasma physics), see  
     QC718.5.M36  
 157        Waves  
           Cf. QA927, Analytic mechanics  
           Cf. QC718.5.W3, Plasma physics  
 158        Jets and cavities  
 159        Vortex flows  
           Cf. QA925, Analytic mechanics  
 Liquids, see QC138 +  
 Gases. Pneumatics  
   Including air  
   Cf. QD531, Manipulation of gases, etc.  
   Cf. QD535, Liquefaction of gases  
 161        General works, treatises and textbooks  
 161.2      Juvenile works  
 161.5      Handbooks, tables, formulas, etc.  
   Special properties of gases  
 162        Adsorption and absorption  
           Including occlusion  
 163        Compressibility



- Descriptive and experimental mechanics  
 Fluids. Fluid mechanics  
 Gases. Pneumatics  
 Special properties of gases -- Continued
- 163.5 Diffusion  
 164 Expansion  
 164.5 High temperatures  
 Occlusion, see QC162  
 165 Pressure  
 Including manometers, etc.  
 165.3 Optical properties  
 165.5 Thermal properties  
 Vacuum  
 Including vacuum production, etc.  
 Cf. TJ940+, Vacuum technology
- 166 General works  
 166.5 Ultrahigh vacuum  
 167 Viscosity
- Gas dynamics. Motion of gases  
 Including thermodynamic aspects  
 Cf. QA930, Analytic mechanics  
 Cf. QC717+, Ion flow dynamics  
 Cf. TJ1025+, Mechanical engineering  
 Cf. TL570+, Aerodynamics
- 167.5 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 168 General works, treatises, and textbooks  
 168.2 Addresses, essays, lectures  
 Study and teaching. Research
- 168.4 General works  
 168.6 Problems, exercises, etc.  
 168.7 Technique  
 168.8 Handbooks, tables, formulas, etc.  
 168.85.A-Z Special topics, A-Z  
 168.85.D46 Detonation waves  
 168.85.R45 Relaxation  
 168.85.S45 Shock waves  
 168.86 Rarefied gas dynamics
- Atomic physics. Constitution and properties of matter  
 Including molecular physics  
 Cf. QC770+, Nuclear physics  
 Cf. QD450+, Physical chemistry  
 Cf. TA401+, Materials of engineering and  
 construction
- 170 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 General works, treatises, and textbooks
- 171 Through 1969  
 171.2 1970-
- Constitution of matter and antimatter (General)  
 Cf. QC671, Aberration  
 Cf. QC793+, Elementary particle physics

- Atomic physics. Constitution and properties of matter  
 Constitution of matter  
     and antimatter (General) -- Continued
- 172 Periodicals, societies, congresses, serial  
     collections, yearbooks
- 172.2 Collected works (nonserial)
- 173 General works, treatises, and textbooks
- 173.16 Juvenile works
- 173.18 Addresses, essays, lectures
- 173.25 Study and teaching. Research
- Properties of matter and antimatter (General)  
     Cf. QC182+, Special properties of matter and  
     antimatter
- 173.28 Periodicals, societies, congresses, serial  
     collections, yearbooks
- 173.3 General works, treatises, and textbooks
- 173.36 Juvenile works
- 173.38 Addresses, essays, lectures
- 173.39 Special aspects of the subject as a whole
- 173.397 Handbooks, tables, formulas, etc.
- 173.4.A-Z Special topics, A-Z
- 173.4.A82 Atom cooling
- 173.4.A85 Atomic beams
- 173.4.A87 Atomic clusters, see QC173.4.M48  
     Atomic structure  
     Clusters, Atomic, see QC173.4.M48
- 173.4.C63 Composite materials
- (173.4.C65) Condensed matter  
     see QC173.45-458
- 173.4.C74 Critical phenomena
- 173.4.E65 Equations of state
- 173.4.H95 Hyperfine structure
- 173.4.I53 Inhomogeneous materials
- 173.4.L55 Liquid crystals  
     Cf. QD923, Crystallography
- 173.4.L56 Liquid metals  
     Cf. TA463, Engineering
- 173.4.M48 Microclusters  
     Including atomic clusters and molecular clusters  
     Cf. QC793.3.S8, Nuclear cluster theory
- 173.4.M5 Microphysics
- 173.4.M65 Molecular beams
- 173.4.M67 Molecular clusters, see QC173.4.M48
- 173.4.M85 Momentum distributions
- 173.4.O73 Multiple scattering
- 173.4.P64 Order-disorder models
- 173.4.P65 Polarizability
- Polymers  
     Class here works on physical properties  
     For general works on chemical and physical  
     properties, see QD380+
- 173.4.P67 Porous materials

- Atomic physics. Constitution and properties of matter  
 Properties of matter and antimatter (General)  
 Special topics, A-Z -- Continued
- 173.4.Q36 Quasicrystals  
     Cf. QD926, Crystallography
- 173.4.Q37 Quasimolecules
- 173.4.R44 Relaxation phenomena
- 173.4.S94 Surfaces
- 173.4.T48 Thomas-Fermi theory
- 173.45 Condensed matter physics  
     Periodicals, societies, congresses, serial  
     publications
- 173.452 Directories
- 173.454 General works, treatises, and advanced textbooks
- 173.456 Study and teaching. Research
- 173.457.A-Z Special methods, A-Z
- 173.457.C64 Computer simulation
- 173.457.S7 Statistical methods
- 173.458.A-Z Special topics, A-Z
- 173.458.C78 Crystalline interfaces
- 173.458.D43 Defects
- 173.458.E43 Electric properties
- 173.458.M33 Magnetic properties
- 173.458.O66 Optical properties
- 173.458.R33 Radiation effects
- 173.458.S62 Soft condensed matter
- 173.458.S64 Spectra
- 173.458.S75 Structure
- 173.458.T48 Thermal properties
- 173.458.U54 Universalities
- Relativity physics  
     Cf. QA808.5, Relativistic mechanics  
     Cf. QC175.3+, Kinetic theory of liquids
- 173.5 Periodicals, societies, congresses, serial  
     collections, yearbooks
- 173.51 Collected works (nonserial)
- 173.52 History
- 173.55 General works, treatises, and textbooks
- 173.57 Popular works
- 173.575 Juvenile works
- 173.58 Addresses, essays, lectures
- 173.585 Special aspects of the subject as a whole  
     Including criticism of relativity
- 173.59.A-Z Special topics, A-Z
- 173.59.G44 Geometrodynamics
- 173.59.M3 Mathematical methods
- 173.59.S65 Space and time
- 173.59.T5 Time dilatation
- 173.59.T53 Time reversal
- Special types of relativity theories
- 173.6 General
- 173.65 Special

- Atomic physics. Constitution  
and properties of matter -- Continued
- Field theories. Unified field theories  
Cf. QA808.2, Continuum mechanics  
Cf. QC174.45+, Quantum field theory  
Cf. QC178, Theories of gravitation  
Cf. QC793.3.F5, Elementary particle physics
- 173.68 Periodicals, societies, congresses, serial  
collections, yearbooks
- 173.7 General works, treatises, and textbooks
- 173.72 Addresses, essays, lectures
- 173.75.A-Z Special topics, A-Z
- 173.75.T5 Thermodynamics
- 173.75.T85 Twistor theory
- Quantum theory. Quantum mechanics  
Cf. QC446.15+, Quantum optics
- 173.96 Periodicals, societies, congresses, serial  
collections, yearbooks
- 173.97 Collected works (nonserial)
- 173.975 Dictionaries and encyclopedias
- 173.98 History
- 174 Early works through 1926  
Class here works on quantum theory prior to the  
Bohr atom
- 174.12 General works, treatises, and textbooks  
Class here works on quantum theory after 1926
- 174.125 Addresses, essays, lectures
- 174.13 Special aspects of the subject as a whole  
Study and teaching. Research
- 174.14 General works
- 174.15 Problems, exercises, examinations
- 174.17.A-Z Special topics, A-Z
- 174.17.A53 Angular momentum
- 174.17.A66 Approximation theory
- 174.17.B45 Bell's theorem
- 174.17.B6 Bound states
- 174.17.C45 Chaos
- 174.17.C6 Commutation relations
- 174.17.C63 Complementarity
- 174.17.C65 Correspondence principle
- 174.17.C67 Coulomb potential
- 174.17.D37 Data processing
- 174.17.D44 Density matrices  
Few-body problem, see QC174.17.P7
- 174.17.F45 Feynman integrals
- 174.17.G46 Geometric quantization
- 174.17.G5 Gibbs' paradox
- 174.17.G56 Gleason measures
- 174.17.G68 Green's functions
- 174.17.G7 Group theory  
Cf. QA174+, Algebra
- 174.17.H3 Hamiltonian operator

- Atomic physics. Constitution and properties of matter  
 Quantum theory. Quantum mechanics  
 Special topics, A-Z -- Continued
- 174.17.H4 Heisenberg principle  
 Cf. QC6.4.D46, Determinism
- 174.17.H55 Hilbert space
- 174.17.I58 Integral equations
- 174.17.I76 Irreversible processes  
 Cf. QC318.I7, Thermodynamics
- 174.17.M33 Many-body problem, see QC174.17.P7
- 174.17.M35 Markov processes
- 174.17.O63 Mathematical logic
- 174.17.P27 Operator theory
- 174.17.P3 Path integrals
- 174.17.P45 Pauli exclusion principle
- 174.17.P45 Perturbation
- 174.17.P68 Probabilities
- 174.17.P7 Problem of many bodies  
 Including few-body problem
- 174.17.R32 Racah algebra
- 174.17.R37 Rate processes
- 174.17.R46 Renormalization theory
- 174.17.R65 Rotation groups
- 174.17.S3 Schrödinger operator
- 174.17.S6 Sommerfeld polynomial method
- 174.17.S76 Stochastic processes
- 174.17.S77 Sum rules
- 174.17.S78 Supergravity, see QC174.17.S9
- 174.17.S9 Superposition
- 174.17.S9 Symmetry. Invariance  
 Including supergravity  
 Cf. QC793.3.S9, Elementary particle physics
- 174.17.T7 Transformations
- 174.17.V35 Variational principles
- 174.17.V4 Vector analysis
- Wave mechanics  
 Cf. QC793.3.W3, Elementary particle physics
- 174.2.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 174.2.A2 Collected works (nonserial)
- 174.2.A6-Z General works, treatises, and textbooks
- 174.22 Addresses, essays, lectures
- 174.23 Special aspects of the subject as a whole
- 174.24.A-Z Special types of wave mechanics, A-Z
- 174.24.G4 Geometrical
- 174.24.N6 Nonlinear
- 174.24.N64 Nonrelativistic
- 174.24.R4 Relativistic
- 174.26.A-Z Special topics, A-Z
- 174.26.A8 Atomic and molecular orbitals, see QD461
- 174.26.A8 Atomic transition probabilities
- 174.26.B58 Bivectors
- Spinor analysis, see QA433

- Atomic physics. Constitution and properties of matter  
 Quantum theory. Quantum mechanics  
 Wave mechanics  
   Special topics, A-Z -- Continued  
 174.26.W28      Wave equations  
                   Including solitons  
 174.26.W3      Wave functions  
 Matrix mechanics  
   Cf. QC793.3.M36, Elementary particle physics  
 174.3.A1       Periodicals, societies, congresses, serial  
                   collections, yearbooks  
 174.3.A6-Z     General works, treatises, and textbooks  
 174.32         Handbooks, tables, formulas, etc.  
 174.35.A-Z     Special theories, A-Z  
 174.35.R2      R-matrix theory  
 174.35.S2      S-matrix theory  
 Quantum statistics  
   Cf. QC793.3.S77, Statistical mechanics of  
       elementary particles  
 174.4.A1       Periodicals, societies, congresses, serial  
                   collections, yearbooks  
 174.4.A2       Collected works (nonserial)  
 174.4.A6-Z     General works, treatises, and textbooks  
 174.42         Addresses, essays, lectures  
 174.43         Special aspects of the subject as a whole  
 Quantum field theory  
   Cf. QC679+, Quantum electrodynamics  
   Cf. QC793.3.M36, Matrix theories of  
       elementary particles  
 174.45.A1      Periodicals, societies, congresses, serial  
                   collections, yearbooks  
 174.45.A2      Collected works (nonserial)  
 174.45.A6-Z    General works, treatises, and textbooks  
 174.46         Addresses, essays, lectures  
 174.52.A-Z     Special topics, A-Z  
 174.52.A43     Algebra of currents  
                   Cf. QC793.3.A4, Elementary particle  
                   physics  
 174.52.C66     Conformal invariants  
 174.52.D43     Degree of freedom  
 174.52.F8      Functional analysis  
 174.52.L6      Lorentz transformations  
 174.52.O6      Operator theory  
 174.52.P37     Path integrals  
 174.52.S32     Scattering  
 174.52.S94     Symplectic manifolds  
 174.52.Y36     Yang-Baxter equation  
 174.52.Y37     Yang-Mills theory  
 Statistical physics  
   Including statistical mechanics and dynamics  
   Cf. QC311.5, Statistical thermodynamics  
   Cf. QC793.3.S77, Elementary particle physics

## Atomic physics. Constitution and properties of matter

- Statistical physics -- Continued
- 174.7 Periodicals, societies, congresses, serial collections, yearbooks
- 174.8 General works, treatises, and textbooks
- 174.82 Addresses, essays, lectures
- 174.84 Special aspects of the subject as a whole
- Study and teaching. Research
- 174.842 General works
- 174.844 Problems, exercises, examinations
- 174.85.A-Z Special topics, A-Z
- 174.85.F47 Fermi liquid theory
- 174.85.H35 Hamiltonian systems
- 174.85.I8 Ising model
- 174.85.L38 Lattice theory
- 174.85.M64 Monte Carlo method
- 174.85.O6 Open systems  
Cf. QC318.O63, Thermodynamics
- 174.85.P45 Percolation
- 174.85.P48 Phase space
- Phase transformations, see QC175.16.P5
- 174.85.Q83 Quantum entropy  
Cf. QC318.E57, Entropy (Thermodynamics)
- 174.85.R36 Random fields
- 174.85.R364 Random matrices
- 174.85.R37 Random walks
- 174.85.S34 Scaling
- 174.85.S46 Set theory
- 174.85.W85 Wulff construction
- 174.86.A-Z Special types of statistical mechanics, A-Z
- 174.86.C6 Classical
- 174.9 Kinetic theory of matter
- Kinetic theory of gases  
Cf. QC702.5, Ionized gases
- 175.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 175.A6-Z General works, treatises, and textbooks
- 175.13 Special aspects of the subject as a whole
- 175.15 Study and teaching. Research
- 175.16.A-Z Special topics, A-Z
- 175.16.B6 Boltzmann's distribution law
- 175.16.B65 Bose-Einstein gas
- 175.16.C6 Condensed gases
- 175.16.E6 Electron gas  
Joule-Thomson effect, see QC318.J6
- 175.16.M6 Molecules
- 175.16.P5 Phase transformations
- 175.16.R3 Rarefied gases
- Transport theory  
Cf. QC176.8.E9, Excitons  
Cf. QC793.3.T7, Transport theory of elementary particles  
Cf. QC809.E6, Energy budget (Geophysics)

- Atomic physics. Constitution and properties of matter  
 Statistical physics  
 Transport theory -- Continued  
 175.2.A1 Periodicals, societies, congresses, serial  
                   collections, yearbooks  
 175.2.A6-Z General works, treatises, and textbooks  
 175.23 Addresses, essays, lectures  
 175.25.A-Z Special topics, A-Z  
 175.25.C6 Collision integrals  
 175.25.I6 Invariant imbedding  
 175.25.L5 Linear transport theory  
 175.25.R3 Radiative transfer  
 175.25.S4 Second sound  
 175.25.S8 Stochastic processes  
 Kinetic theory of liquids  
 175.3 General works, treatises, and textbooks  
 175.32 Addresses, essays, lectures  
 175.35 Special aspects of the subject as a whole  
 175.36.A-Z Special topics, A-Z  
 175.36.R4 Relativity  
 Superfluid physics  
   Cf. QC611.9+, Superconductivity  
 175.4.A1 Periodicals, societies, congresses, serial  
                   collections, yearbooks  
 175.4.A6-Z General works, treatises, and textbooks  
 175.45 Addresses, essays, lectures  
 175.47.A-Z Special topics, A-Z  
 175.47.B65 Bose-Einstein condensation  
 Solids. Solid state physics  
   Class here works on solids, including works which  
   also deal in part with crystals.  
   Cf. QD478, Solid state chemistry  
   Cf. TN689+, Physical metallurgy  
   For works which deal exclusively with crystals, see  
   QD901+  
 176.A1 Periodicals, societies, congresses, serial  
                   collections, yearbooks  
 176.A3 Dictionaries and encyclopedias  
 176.A6-Z General works, treatises, and textbooks  
 176.2 Addresses, essays, lectures  
   Study and teaching. Research  
 176.5 General works  
 176.52.A-Z By region or country, A-Z  
 176.8.A-Z Special topics, A-Z  
 176.8.A3 Acoustic properties  
           Cf. TA418.84, Engineering materials  
 176.8.A35 Adhesion  
 176.8.A44 Amorphous substances  
 176.8.A54 Anderson model  
 176.8.A6 Annealing  
 176.8.C45 Channeling  
 176.8.C6 Compressibility  
 176.8.D5 Diffusion



## Atomic physics. Constitution and properties of matter

## Solids. Solid state physics

## Special topics, A-Z -- Continued

- 176.8.E35 Elastic properties, see QC191
- 176.8.E4 Electric properties
- 176.8.E9 Electronic states
- 176.8.E94 Excitons
- 176.8.F4 Expansion
- 176.8.H66 Fermi surface
- 176.8.L3 Hole burning, Optical, see QC176.8.O58
- 176.8.L3 Hopping conduction
- 176.8.L3 Lattice dynamics
  - Cf. QD921+, Crystal structure
- 176.8.M3 Magnetic properties
- 176.8.M46 Mesoscopic phenomena
- 176.8.M48 Metal-insulator transitions
- 176.8.M5 Micromechanics
- 176.8.N35 Nanostructures
- 176.8.N65 Noncrystalline solids, see QC176.8.A44
- 176.8.O58 Nonmetallic solids
- 176.8.O6 Optical hole burning
- 176.8.P45 Optical properties
- 176.8.P5 Phase transformations
- 176.8.P54 Phonons
- 176.8.P55 Plasma effects
- 176.8.P6 Plasmons
- 176.8.P62 Polaritons
- 176.8.Q35 Polarons
- 176.8.R3 Quantum wells
- 176.8.R35 Radiation effects
- 176.8.S68 Rare gas solids
- 176.8.S72 Spin glasses
- 176.8.S8 Sputtering
- 176.8.S8 Surface properties
  - Cf. QD506+, Surface chemistry
  - Cf. TA418.7+, Surface technology
- 176.8.T4 Thermal properties
  - Cf. QC295, Specific heat
  - Cf. TA418.52+, Engineering materials
- 176.8.T8 Tunneling
- 176.8.V34 Valence fluctuations
- 176.8.W3 Wave propagation
- Thin films
  - 176.82 Periodicals, societies, congresses, serial collections, yearbooks
  - 176.825 Collected works (nonserial)
  - 176.83 General works, treatises, and textbooks
  - 176.835 Addresses, essays, lectures
  - 176.84.A-Z Special topics, A-Z
    - 176.84.D54 Diffusion
    - 176.84.E5 Electric properties
    - 176.84.M3 Magnetic properties
    - 176.84.O7 Optical properties

- Atomic physics. Constitution and properties of matter  
 Solids. Solid state physics  
 Thin films  
   Special topics, A-Z -- Continued  
     Radiation effects  
     Size effects  
     Surface properties  
 Special thin film substances and types, A-Z  
   Multilayered  
   Nonmetallic  
   Organic  
   Rare earths  
 Special substances, A-Z  
 Ice  
   Cf. QC926.3+, Snow  
 177 Theories of ether  
 178 Theories of gravitation  
   Including antigravity, quantum gravity  
 179 Gravitational radiation  
 Special properties of matter and antimatter  
 182 Absorption and adsorption  
   Cf. QC162, Adsorption and absorption of gases  
 183 Capillarity  
   Including surface tension, cohesion  
   Cf. QA274.75, Brownian motion processes  
   Cf. QD506+, Surface chemistry  
 184 Brownian motion  
 185 Diffusion. Transpiration  
   Cf. QA274.75, Diffusion processes  
   Cf. QC145.4.D5, Diffusion in liquids  
   Cf. QC163.5, Diffusion in gases  
   Cf. QC176.8.D5, Diffusion in solids  
 Osmosis (Physical chemistry), see QD543  
 Osmosis (Cytology), see QH615, QK871  
 Viscosity  
   Cf. QC145.4.V5, Viscosity of liquids  
   Cf. QC167, Viscosity of gases  
 189.A1 Periodicals, societies, congresses, serial  
   collections, yearbooks  
 189.A2 Collected works (nonserial)  
 189.A6-Z General works, treatises, and textbooks  
 189.2 Handbooks, tables, formulas, etc.  
 Rheology  
   Including non-Newtonian liquids  
   Cf. QA931+, Plasticity (Analytic mechanics)  
   Cf. TA418.14+, Plastic properties of  
     materials  
   Cf. TP156.R45, Chemical engineering  
 189.5.A1 Periodicals, societies, congresses, serial  
   collections, yearbooks  
 189.5.A2 Collected works (nonserial)  
 189.5.A6-Z General works, treatises, and textbooks  
 189.8 Thixotropy

- Atomic physics. Constitution and properties of matter  
 Special properties  
 of matter and antimatter -- Continued
- 191 Elastic properties of solids  
 Cf. QA931+, Analytic mechanics  
 Cf. QD933, Crystallography  
 Cf. TA418+, Mechanical properties of materials
- 192 Thermal properties  
 193 Deformation  
 197 Friction, etc.  
 Cf. TA418.72, Friction properties of materials
- Sound, light, and heat as a whole  
 General works  
 220 Acoustooptics  
 220.5 Acoustics. Sound  
 Cf. ML3805, Music acoustics  
 Cf. NA2800, Architectural acoustics  
 Cf. QC176.8.A3, Acoustical properties of solids  
 Cf. QP460+, Bioacoustics  
 Cf. TA365+, Acoustics in engineering  
 Cf. TA418.84, Acoustical properties of materials  
 Cf. TH1725, Soundproof construction  
 Cf. TK5981+, Electroacoustics
- 221 Periodicals, societies, congresses, serial collections, yearbooks
- 221.5 Dictionaries and encyclopedias  
 221.7 History  
 222 Early works through 1800  
 223 Mathematical theory  
 General works, treatises, and advanced textbooks  
 225 1801-1969  
 225.15 1970-  
 225.2 Elementary textbooks  
 225.3 Popular works  
 225.5 Juvenile works  
 225.6 Addresses, essays, lectures  
 225.7 Special aspects of the subject as a whole  
 Study and teaching. Research
- 226 General works  
 226.6 Experiments  
 227 Laboratory manuals  
 Laboratories
- 228.A1 General works  
 228.A3-Z By region or country, A-Z  
 Apply table at QC51.A3-Z
- 228.2 Technique  
 228.3 Instruments and apparatus  
 228.8 Handbooks, tables, formulas, etc.  
 229 Miscellany and curiosa  
 Special topics
- 231 Kinematics of vibrations and wave motion

- Acoustics. Sound  
 Special topics -- Continued
- 233 Propagation of sound  
 Including velocity, reflection, transmission
- Vibrations
- 235 Gases in tubes, etc. Resonance
- 241 Strings, rods, membranes, plates, tuning forks
- Underwater acoustics
- 242 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 242.2 General works, treatises, and textbooks
- 242.25 Addresses, essays, lectures
- 242.4 Instruments and apparatus  
 Cf. TK5987, Hydrophone design and  
 construction
- 242.5.A-Z Special topics, A-Z
- 242.5.O23 Ocean tomography
- Sound waves  
 Cf. TD894, Noise measurement
- 242.8 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 243 General works, treatises, and textbooks
- 243.2 Juvenile works
- 243.3.A-Z Special topics, A-Z
- 243.3.A25 Acoustic streaming
- 243.3.A4 Amplitude
- 243.3.D3 Damping
- 243.3.D53 Diffraction
- 243.3.E5 Energy
- 243.3.P7 Pressure of sound
- 243.3.R3 Radiation pressure
- 243.3.R4 Reverberation. Reverberation time  
 Cf. NA2800, Architectural acoustics
- 243.3.S3 Scattering  
 Transmission, see QC233
- 243.5 Infrasonics
- 244 Ultrasonics  
 Cf. QC480.2, Sonoluminescence  
 Cf. TA417.4, Ultrasonic testing
- 244.2 Nonlinear acoustics
- 244.5 Acoustic holography
- 246 Analysis of sounds. By phonograph, etc.  
 For acoustic phonetics, see P221.5
- Heat  
 Cf. QC220+, Sound, light, and heat as a whole  
 For thermal properties of solids, see QC176.8.T4
- 251 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 251.4 Collected works (nonserial)
- 251.6 Dictionaries and encyclopedias
- 252 History and philosophy
- 252.2 Nomenclature, terminology, notation, abbreviations
- 253 Early works through 1800

- Heat -- Continued
- 254 General works, treatises, and advanced textbooks
    - 1801-1969
    - 1970-
  - 254.2 Elementary textbooks
  - 255 Juvenile works
  - 256 Addresses, essays, lectures
  - 257 Study and teaching. Research
    - For programmed texts, see QC254+
  - 261 General works
  - 261.5 Problems, exercises, examinations
  - 263 Experiments
  - 263.5 Laboratory manuals
  - 265 Technique
  - 266 Handbooks, tables, formulas, etc.
  - 267 Miscellany and curiosa
  - Thermometers. Thermometry
    - Including temperature measurements and temperature measuring instruments
    - Cf. GC177, Oceanographic instruments
  - 270 Periodicals, societies, congresses, serial collections, yearbooks
  - 270.5 Collected works (nonserial)
  - 270.7 Dictionaries and encyclopedias
  - 271 General works, treatises, and textbooks
  - 271.4 Juvenile works
  - 271.5 Addresses, essays, lectures
  - 271.6 Special aspects of the subject as a whole
  - 271.8.A-Z Special aspects of instrumentation, A-Z
    - 271.8.A95 Automatic control
    - 271.8.C3 Calibration
    - 271.8.T3 Testing
  - Special types of thermometers
    - 272 Mercury and other liquids
    - 273 Air and gases
    - 274 Electrical. Resistance thermometers. Thermocouples
  - 275.A-Z Other, A-Z
  - High temperatures
    - 276 General works
    - 277 Pyrometers and pyrometry
  - Low temperatures
    - Cf. QD536, Thermochemistry
    - Cf. TP480+, Low temperature engineering
  - 277.9 Periodicals, societies, congresses, serial collections, yearbooks
  - 278 General works, treatises, and textbooks
  - 278.2 Juvenile works
  - 278.4 Addresses, essays, lectures
  - 278.6 Instruments and apparatus
  - High pressure
    - 280 Periodicals, societies, congresses, serial collections

## Heat

- High pressure -- Continued
- 280.2 General works, treatises, and textbooks
- 280.4 Study and teaching. Research
- 280.6 Technique
- 280.8 Instruments and apparatus
- Relations between pressure, volume, and temperature
- 281 General works
- 281.5.A-Z Special topics, A-Z
- 281.5.C6 Compressibility
- 281.5.E9 Expansion
- (282) Solids  
see QC176-QC176.9
- (284) Liquids  
see QC138-QC168.86
- (286) Gases  
see QC161-QC166.5
- Calorimeters and calorimetry
- Cf. QD510+, Thermochemistry
- Cf. TP315+, Fuel (Chemical technology)
- 290 Periodicals, societies, congresses, serial  
collections, yearbooks
- 291 General works, treatises, and textbooks
- 292 Addresses, essays, lectures
- 293.A-Z Special types of calorimeters, A-Z
- 293.A3 Adiabatic
- 293.F5 Fluid
- 293.F8 Fuel
- 293.G3 Gas
- 293.M5 Microcalorimeter
- 293.R3 Radiation
- 293.V3 Vacuum
- 295 Specific heat of solids and liquids
- 297 Specific heat of gases and vapors
- Change of state
- 301 General works, treatises, and textbooks
- 303 Fusion and solidification. Heat of fusion
- 304 Saturated vapors. Vapor pressure. Evaporation.  
Ebullition. Heat of vaporization  
Cf. QC915.5+, Meteorology  
Cf. QD533, Vapor densities  
Cf. QD535, Liquefaction of gases
- 307 Continuity of state. Critical state. Critical  
point. Equations of state
- 309 Vaporization of solids. Sublimation
- 310 Heat of formation, solution, wetting, etc.  
Cf. QD516, Thermochemistry
- Thermodynamics
- Cf. QC718.5.T5, Plasma physics
- Cf. QD510+, Chemical thermodynamics
- Cf. TJ255+, Heat engines. Engineering  
thermodynamics
- Cf. TN689+, Metallurgical thermodynamics

## Heat

- Thermodynamics -- Continued
- 310.15 Periodicals, societies, congresses, serial collections, yearbooks
- 310.2 Collected works (nonserial)
- 310.3 Dictionaries and encyclopedias
- 310.5 Nomenclature, terminology, notation, abbreviations
- 311 General works, treatises, and advanced textbooks
- 311.15 Elementary textbooks
- 311.19 Addresses, essays, lectures
- 311.2 Special aspects of the subject as a whole  
Study and teaching. Research
- 311.25 General works
- 311.28 Problems, exercises, examinations
- 311.29 Data processing
- 311.3 Handbooks, tables, formulas, etc.  
Special types of thermodynamics
- 311.5 Statistical
- 311.7 Relativistic
- 312 Mechanical equivalent of heat
- 318.A-Z Other special topics, A-Z
- 318.E55 Enthalpy
- 318.E57 Entropy  
Cf. QC174.85.Q83, Quantum entropy  
Equilibrium thermodynamics, see QC318.T47  
Force and energy, see QC71.82 +  
Gases, see QC167.5 +
- 318.I7 Irreversible processes  
Including nonequilibrium thermodynamics  
Cf. QC174.17.I76, Quantum theory
- 318.J6 Joule-Thomson effect  
Low temperatures, see QC277.9 +
- 318.M3 Mass transfer
- 318.M35 Maxwell's demon  
Nonequilibrium thermodynamics, see QC318.I7
- 318.O63 Open systems
- 318.P6 Planck radiation law
- 318.T47 Thermodynamic equilibrium
- 318.T5 Thermodynamic potentials
- 319 Miscellany and curiosa
- Heat transfer
- 319.8 Periodicals, societies, congresses, serial collections, yearbooks
- 319.9 Collected works (nonserial)
- 320 General works, treatises, and textbooks
- 320.14 Juvenile works
- 320.16 Addresses, essays, lectures
- 320.2 Special aspects of the subject as a whole
- 320.22.A-Z Special topics, A-Z
- 320.22.E4 Electromechanical analogies
- 320.22.E43 Electronic data processing
- 320.22.F5 Film boiling
- Study and teaching. Research

QC

## Heat

## Heat transfer

Study and teaching. Research -- Continued

- 320.3 General works
- 320.34 Problems, exercises, examinations
- 320.36 Experiments
- 320.38 Instruments and apparatus
- 320.4 Handbooks, tables, formulas, etc.
- Conduction
- 320.8 Periodicals, societies, congresses, serial collections, yearbooks
- 321 General works, treatises, and textbooks
- 321.3 Juvenile works
- 321.5 Addresses, essays, lectures
- 321.6 Special aspects of the subject as a whole
- 321.7.A-Z Special topics, A-Z
- 321.7.E4 Electromechanical analogies
- 321.7.T55 Thermal diffusivity
- 323 Experiments

## Convection

- Cf. TH7435+, Heating of buildings
- 326 Periodicals, societies, congresses, serial collections, yearbooks
- 327 General works, treatises, and textbooks
- 327.4 Handbooks, manuals, etc.
- 328 Addresses, essays, lectures
- 330 Free convection
- 330.2 Bénard cells
- Radiation and absorption. Laws of cooling
- 331 General works
- Instruments
- 338 General works, treatises, and textbooks
- 338.5.A-Z Special, A-Z
- 338.5.B6 Bolometers
- 338.5.P95 Pyroelectric detectors
- 338.5.R3 Radiometers
- 338.5.R33 Radiomicrometers
- Thermopiles, see QC274

## Optics. Light

- Cf. QC220+, Sound, light, and heat as a whole
- Cf. QC494+, Color
- Cf. QP474+, Physiological optics
- Cf. TA1501+, Applied optics. Lasers
- 350 Periodicals, societies, congresses, serial collections, yearbooks
- 351 Collected works (nonserial)
- 351.2 Dictionaries and encyclopedias
- 351.5 Nomenclature, terminology, notation, abbreviations
- 352 History
- 353 Early works through 1800
- General works, treatises, and advanced textbooks
- 355 1801-1969
- 355.2 1970-



- 358 Optics. Light -- Continued  
     Elementary textbooks  
 358.5 Popular works  
 360 Juvenile works  
 361 Addresses, essays, lectures  
 362 Pictorial works and atlases  
     Study and teaching. Research  
 363 General works  
 363.2 Outlines, syllabi  
 363.4 Problems, exercises, examinations  
 365 Experiments  
 366 Laboratory manuals  
 367 Optical measurements  
 368 Optical constants  
 369 Handbooks, tables, formulas, etc.  
 369.2 Miscellany and curiosa  
 370 Information theory in optics  
     Optical instruments and apparatus (General)  
         Cf. QC385+, Lens and mirror systems  
         Cf. QC787.O6, Nuclear fission, atomic energy,  
             and radioactivity instruments  
         Cf. TS510+, Optical instrument manufacture  
 370.5 Periodicals, societies, congresses, serial  
         collections, yearbooks  
 370.6 Collected works (nonserial)  
 370.7 Dictionaries and encyclopedias  
 371 General works, treatises, and textbooks  
 371.4 Juvenile works  
 371.5 Addresses, essays, lectures  
 372 Special aspects of the subject as a whole  
 372.2.A-Z Special topics, A-Z  
 372.2.D4 Design  
     Study and teaching. Research  
         General works  
         Laboratory manuals  
 372.22 Handbooks, tables, formulas, etc.  
 372.24 Special instruments, A-Z  
 372.6 Beam splitters  
 373.A-Z Binoculars. Field glasses  
 373.B3 Collimators  
 373.B55 Diffraction gratings, see QC417  
 373.C64 Field glasses, see QC373.B55  
         Hand lenses, see QC373.M33  
 373.H5 Heliostat  
         Interference microscopes, see QH212.I5  
 373.K3 Kaleidoscope  
 373.L5 Light filters  
 373.M33 Magnifying glasses. Hand lens  
         Mass spectrometers, see QC454.M3  
         Microscopes, see QH211+  
 373.P7 Polariscope  
         Polarizing apparatus, see QH217  
 373.Q2 Q-switching

- Optics. Light  
 Optical instruments and apparatus (General)  
 Special instruments, A-Z -- Continued  
 Reflectometer, see QC425.4  
 Refractometers, see QC426.4  
 373.R4 Reticles  
 Scanning systems, see TK7882.S3  
 373.S3 Schlieren apparatus  
 Including schlieren methods  
 373.S7 Spectrograph. Spectrometer  
 373.S8 Stereoscope  
 373.S85 Stroboscope  
 Telemeter, see TK399  
 Materials for optical instruments, etc.  
 374 General works  
 374.5 Diamond  
 375 Glass  
 376 Quartz  
 378 Thin films  
 379 Miscellany and curiosa  
 Geometrical optics  
 Cf. QC974.5+, Meteorological optics  
 Cf. TR220, Photographic optics  
 380 Early works through 1800  
 381 General works, treatises, and advanced textbooks  
 381.2 Elementary textbooks  
 381.4 Popular works  
 381.6 Juvenile works  
 Study and teaching. Research  
 382 General works  
 382.2 Problems, exercises, examinations  
 382.6 Laboratory manuals  
 383 Mathematical theory  
 Lens and mirror systems  
 Cf. QB88, Astronomical instruments  
 Cf. RE961, Ophthalmology  
 Cf. TC379, Lighthouse lenses  
 Cf. TP867, Mirrors and mirror frames  
 Cf. TR270+, Camera lenses  
 Cf. TS517.3+, Manufacture of optical surfaces  
 385 General works  
 385.2.A-Z Special topics, A-Z  
 385.2.D47 Design  
 Cf. QC372.2.D4, Optical instrument design  
 385.5 Experiments  
 387 Refractive indices  
 Cf. QC426.4, Refractometers  
 389 Transmission of radiation  
 391 Photometry. Microphotometry  
 Including densitometers  
 Cf. QB135, Astronomical photometry  
 Cf. TK4367, Electric light testing  
 Cf. TP754, Gas light testing

## Optics. Light -- Continued

- Physical optics
- 392 Periodicals, societies, congresses, serial collections, yearbooks
- 393 Collected works (nonserial)
- 393.2 Dictionaries and encyclopedias
- 394 Early works through 1800
- General works, treatises, and advanced textbooks
- 395 1801-1969
- 395.2 1970-
- 396 Elementary textbooks
- 397 Addresses, essays, lectures
- 397.5.A-Z Special topics, A-Z
- 397.5.I53 Images
- 397.5.O77 Optical losses
- Study and teaching. Research
- 398 General works
- 398.2 Problems, exercises, examinations
- Theories of light
- 401 General works
- 402 Corpuscular theory  
Cf. QC446.15+, Quantum optics
- 403 Wave theory  
Cf. QC669+, Electromagnetic theory
- 406 Miscellaneous speculations
- 407 Velocity of light
- Interference
- Including Newton's rings, interferometer  
Cf. QH212.I5, Interference microscopes
- 410.9 Periodicals, societies, congresses, serial collections, yearbooks
- 411 General works, treatises, and textbooks
- 411.4 Instruments and apparatus
- Diffraction
- 414.8 Periodicals, societies, congresses, serial collections, yearbooks
- 414.9 Collected works (nonserial)
- 415 General works, treatises, and textbooks
- 416 Addresses, essays, lectures
- 417 Instruments and apparatus  
Including diffraction gratings
- Reflection
- 425 General works
- 425.2 Juvenile works
- 425.4 Instruments and apparatus  
Including reflectometers
- Refraction
- 425.9 Collected works (nonserial)
- 426 General works, treatises, and textbooks
- 426.2 Juvenile works
- 426.4 Instruments and apparatus  
Including refractometers
- 426.6 Handbooks, tables, formulas, etc.

- Optics. Light  
 Physical optics  
 Refraction -- Continued  
 426.8.A-Z Special topics, A-Z  
 426.8.D68 Double refraction  
 Scattering (General)  
 427 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 427.4 General works, treatises, and textbooks  
 427.6 Handbooks, tables, formulas, etc.  
 427.8.A-Z Special topics, A-Z  
 427.8.C7 Critical opalescence  
 427.8.C73 Critical scattering  
 427.8.M5 Mie scattering  
 427.8.R3 Rayleigh scattering  
 427.8.S64 Speckle  
 Cf. TA1671+, Lasers and laser  
 applications  
 Dispersion  
 431 General works  
 435 Anomalous dispersion  
 437 Incidence  
 Including grazing incidence  
 Polarization  
 Cf. QD481, Stereochemistry  
 Cf. TP382, Saccharimetry  
 440 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 441 General works, treatises, and textbooks  
 442 Addresses, essays, lectures  
 443 Production and measurement  
 445 Rings and brushes of crystals  
 Cf. QD941, Optical properties of crystals  
 446.A-Z Other special topics, A-Z  
 446.D5 Dichroism  
 Nonlinear optics. Quantum optics  
 For maser and laser physics, see QC685 +  
 446.15 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 446.2 General works, treatises, and textbooks  
 446.3.A-Z Special topics, A-Z  
 446.3.C45 Chaos  
 446.3.O65 Optical bistability  
 446.3.O67 Optical phase conjugation  
 446.3.O68 Optical pumping  
 446.3.S67 Squeezed light  
 Magneto-optics, see QC675 +  
 (447) Electronic optics  
 see QC793.5.E62-E629  
 Fiber optics  
 Cf. TA1800+, Applied fiber optics  
 447.9 Periodicals, societies, congresses, serial  
 collections, yearbooks

- Optics. Light  
 Physical optics  
 Fiber optics -- Continued  
 448 General works, treatises, and textbooks  
 448.2 Addresses, essays, lectures  
 Holography  
 Cf. HD9707.5.H34+, Holography industry  
 Cf. QC244.5, Acoustic holography  
 Cf. TA1540+, Applied holography  
 449 General works  
 449.3 Electron holography  
 449.5 Optical tomography  
 Spectroscopy  
 Class here general works on the theory of spectroscopy and works intended primarily for physicists, including the spectroscopy of all electromagnetic radiations  
 Class here also compilations of spectra of elements, groups of elements, organic and inorganic compounds  
 For works on the application of spectroscopy in analytical chemistry and theoretical works intended primarily for chemists, see QD95-QD96; QD272.S6  
 450 Periodicals, societies, congresses, serial collections, yearbooks  
 450.15 Collected works (nonserial)  
 450.3 Dictionaries and encyclopedias  
 450.5 History  
 451 General works, treatises, and textbooks  
 451.2 Pictorial works and atlases  
 451.4 Addresses, essays, lectures  
 451.6 Special aspects of the subject as a whole  
 Study and teaching. Research  
 451.8 General works  
 451.82 Laboratory manuals  
 452 Data processing  
 452.5 Instruments and apparatus  
 453 Handbooks, tables, formulas, etc.  
 Including wavelength tables  
 454.A-Z Special types of spectra and spectroscopy, A-Z  
 454.A2 Absorption spectra  
 Alpha ray spectroscopy, see QC793.5.A22+  
 454.A7 Arc spectra  
 454.A8 Atomic spectroscopy  
 Band spectra, see QC454.M6  
 454.B39 Beam-foil spectroscopy  
 Beta spectroscopy, see QC793.5.B42+  
 454.C634 Collision spectroscopy  
 454.E4 Electron spectroscopy  
 454.E46 Emission spectroscopy  
 454.F6 Flame spectroscopy  
 454.F7 Fourier transform spectroscopy

## Optics. Light

## Spectroscopy

## Special types of spectra

and spectroscopy, A-Z -- Continued

- 454.F85 Frequency spectra  
 454.G3 Gamma spectroscopy, see QC793.5.G32 +  
 454.H33 Gas spectra  
 454.H618 Hadamard transform spectroscopy  
 454.H9 Hadron spectroscopy, see QC793.5.H32 +  
 454.I5 High resolution spectroscopy  
 454.L3 Hyperfine spectra  
 454.L58 In-beam gamma ray spectroscopy, see QC793.5.G32 +  
 454.L63 Infrared spectrum, see QC457  
 454.M3 Internal reflection spectroscopy  
 454.M32 Laser spectroscopy  
 454.M5 Level-crossing spectroscopy  
 454.M6 Light-beating spectroscopy  
 454.N8 Luminescence spectroscopy, see QC476.6  
 454.O68 Magnetic resonance spectroscopy, see QC762  
 454.P46 Mass spectroscopy  
 454.P48 Matrix isolation spectroscopy  
 454.R3 Microwave spectroscopy  
 454.R36 Molecular spectroscopy  
 454.R4 Mössbauer spectroscopy, see QC491  
 454.R47 Neutron spectroscopy, see QC793.5.N462 +  
 455 Nuclear magnetic resonance spectroscopy, see QC762  
 457 Nuclear spectroscopy  
 Cf. QC793.5.A22 +, Particle spectra  
 Optogalvanic spectroscopy  
 Particle spectra, see QC793.5.A22 +  
 Photodetachment threshold spectroscopy  
 Photoelectron spectroscopy  
 Plasma spectroscopy, see QC718.5.S6  
 Radiofrequency spectroscopy  
 Raman spectroscopy  
 Reflectance spectroscopy  
 Resonance ionization spectroscopy  
 Rotational spectra, see QD481  
 Scintillation spectroscopy, see QC491.5 +  
 Solar spectroscopy (Meteorology), see QC910.2 +  
 Solar spectroscopy (Optics), see QC455  
 Spark spectroscopy  
 Time-of-flight mass spectroscopy, see QC454.M3  
 Tunneling spectroscopy  
 Ultraviolet spectroscopy, see QC459 +  
 Vibrational spectra  
 X-ray spectroscopy, see QC482.S6  
 Solar spectrum  
 Including wavelength measurements and maps  
 For works relating to the constitution and  
 physical condition of the sun, see QB551  
 Infrared spectrum  
 Cf. TA1570, Infrared technology

- Optics. Light
- Spectroscopy -- Continued
  - Ultraviolet spectrum
    - Cf. TA1501+, Applied optics. Lasers
  - General works
  - Far ultraviolet spectrum
- Spectra of special substances
  - Special elements and groups of elements, A-Z (Table Q1 modified)
  - Colloids
  - Metal vapors
  - Metals
  - Rare earths
  - Trace elements
  - Transition metals
- Organic compounds
  - General works, treatises, and textbooks
  - Handbooks, tables, formulas, etc.
  - Special organic compounds, A-Z
    - Alcohols
    - Alkaloids
    - Amines
    - Anthracene and derivatives
    - Anthraquinones
    - Benzene
    - Biphenyl compounds
    - Carbohydrates
    - Chelates
    - Chlorophyll
    - Chroman
    - Coordination compounds
    - Essences and essential oils
    - Esters
    - Ethers and oxides
    - Fluorocarbons
    - Formaldehyde
    - Furans
    - Gums and resins
    - Heterocyclic compounds
    - Hydrocarbons
    - Imidazole
    - Indole alkaloids
    - Metal carbonyls
    - Naphthoquinone
    - Organometallic compounds
    - Organophosphorus compounds
    - Organosilicon compounds
    - Plasticizers
    - Polymers
    - Polyurethanes
    - Porphyrin
    - Proteins
    - Pyridines

459  
459.5  
  
462.A-Z  
  
462.C65  
462.M47  
462.M49  
462.R2  
462.T85  
462.T86  
  
462.5  
462.85  
463.A-Z  
463.A4  
463.A47  
463.A8  
463.A84  
463.A86  
463.B4  
463.B5  
463.C3  
463.C5  
463.C54  
463.C57  
463.C78  
463.E68  
463.E69  
463.E7  
463.F55  
463.F6  
463.F8  
463.G84  
463.H4  
463.H9  
463.I44  
463.I5  
463.M38  
463.N35  
463.O7  
463.O72  
463.O73  
463.P46  
463.P5  
463.P55  
463.P6  
463.P7  
463.P92

## Optics. Light

## Spectroscopy

## Spectra of special substances

## Organic compounds

## Special organic compounds, A-Z -- Continued

- 463.Q5                   Quinoline
- 463.Q54                Quinone
- Resins, see QC463.G84
- 463.S23                Saccharides
- 463.S72                Solvents
- 463.S8                 Steroids
- 463.S9                 Sulphur organic compounds
- 463.S94                Surface active agents
- 463.T4                 Terpenes
- 464.A-Z                Inorganic substances, A-Z
- 464.A43                Alkali metal halides
- 464.A44                Alkaline earth ferricyanides
- 464.A47                Ammonia
- 464.B67                Borates
- 464.C34                Calcium fluoride
- 464.C37                Carbon dioxide
- 464.C375              Carbon disulphide
- 464.F87                Fused salts
- 464.G55                Glass
- 464.H93                Hydrides
- 464.H934              Hydrochloric acid
- 464.H936              Hydrogen fluoride
- 464.M47                Mercury compounds
- 464.M48                Metallic oxides
- 464.M53                Mica
- 464.N57                Nitrates
- 464.N574              Nitric acid
- 464.N577              Nitrogen dioxide
- 464.N64                Nonmetallic minerals
- 464.P44                Phosphates
- 464.P46                Phosphorus compounds
- 464.P68                Potassium hydride
- 464.P685              Potassium phosphates
- 464.Q37                Quartz
- 464.S45                Selenium compounds
- 464.S54                Silicates
- 464.S546              Silver chloride
- 464.S63                Sodium halides
- 464.S635              Sodium hydride
- 464.S637              Sodium nitroferricyanide
- 464.S94                Sulphur dioxide
- 464.T44                Tellurium chlorides
- 464.T54                Thallium chloride
- 464.U73                Uranium compounds
- 464.W37                Water
- 464.Z57                Zirconium oxide

Instruments and apparatus  
Including absorptionmeter



- Optics. Light
- 467 Spectroscopy -- Continued  
 Structure of spectral lines. Effect of pressure.  
 Stack effect, etc.  
 Cf. QC675.5.Z4, Zeeman phenomenon
- Radiation physics (General)  
 Cf. QA935+, Wave propagation in elastic solids  
 Cf. QB531, Astronomy  
 Cf. QC191, Elastic properties of solids  
 Cf. QC331+, Thermal radiation  
 Cf. QC787.C6, Nuclear counters, etc.  
 Cf. QC793.5.A+, Radiation of special particles  
 Cf. QC910.2+, Solar radiation  
 Cf. QD601+, Radiation chemistry  
 Cf. QP82.2.R3, Physiological effect
- 474 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 474.5 Collected works (nonserial)
- 475 General works, treatises, and textbooks
- 475.25 Juvenile works
- 475.5 Study and teaching. Research
- 475.6 Special aspects of the subject as a whole
- 475.7 Technique
- 475.8 Instruments and apparatus
- 476.A-Z Special topics, A-Z
- 476.C6 Coherence  
 Duality, Wave-particle, see QC476.W38
- 476.S6 Sources of radiation
- 476.S86 Superradiance
- 476.W38 Wave-particle duality  
 Cf. QC401+, Theories of light
- Luminescence  
 Cf. QC976.A3, Airglow  
 Cf. QD505.8, Chemiluminescence
- 476.4 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 476.45 Collected works (nonserial)
- 476.5 General works, treatises, and textbooks
- 476.6 Luminescence spectroscopy
- 476.7 Phosphors
- 476.8 Photoluminescence (General)  
 General works  
 Fluorescence  
 General works  
 Instruments and apparatus  
 Including fluorimeters
- 477 Sensitized fluorescence
- 477.2 Phosphorescence  
 Cf. QD79.P4, Phosphorimetry  
 Cf. QH641, Bioluminescence  
 Cf. TK454.4.P5, Phosphors (Electrical  
 engineering)
- 477.4 Cf. TK7871.15.P4, Phosphors (Electronics)

- Radiation physics (General)
- Luminescence
    - Photoluminescence (General)
    - Phosphorescence -- Continued
      - 477.8 Periodicals, societies, congresses, serial collections, yearbooks
      - 477.9 Collected works (nonserial)
      - 478 General works, treatises, and textbooks
      - 479 Thermoluminescence
      - 479.5 Cathodoluminescence
      - 480 Electroluminescence
      - 480.2 Sonoluminescence
  - X-rays. Roentgen rays
    - Cf. QB472+, X-ray astronomy
    - Cf. QC710+, Discharges through gases
    - Cf. QH212.X2, X-ray microscopes
    - Cf. RC78+, Medical radiography
    - Cf. RM845+, Radiotherapy
    - Cf. TR750, Radiography (Photography)
    - 480.8 Periodicals, societies, congresses, serial collections, yearbooks
    - 480.9 Dictionaries and encyclopedias
    - 481 General works, treatises, and textbooks
    - 481.5 Instruments and apparatus
      - Cf. RC78.5, Radiography
      - Cf. RM862.5, Radiotherapy
      - Cf. TR750, Applied photography
    - 482.A-Z Special topics, A-Z
      - Crystallography, see QD945
      - 482.D5 Diffraction
      - 482.G68 Grenz rays
      - 482.P6 Polarization
      - 482.S3 Scattering
      - 482.S6 Spectroscopy
    - 482.2 Study and teaching. Research
      - General works
      - 482.3 Experiments
    - (483) Electric radiations (General)
      - see QC660.5-QC678.6
    - 484 Blackbody radiation
    - Bremsstrahlung
      - 484.2 Periodicals, societies, congresses, serial collections, yearbooks
      - 484.3 General works, treatises, and textbooks
      - 484.5 Study and teaching. Research
      - 484.6.A-Z Special topics, A-Z
        - 484.6.I5 Inner Bremsstrahlung
    - Cosmic ray physics
      - Cf. QB463+, Nuclear astrophysics
      - Cf. QC770+, Nuclear physics
      - Cf. QC809.V3, Van Allen radiation belts
      - 484.8 Periodicals, societies, congresses, serial collections, yearbooks

- Radiation physics (General)
- Cosmic ray physics -- Continued
    - 484.85 Collected works (nonserial)
    - 484.9 History
    - 485 General works, treatises, and textbooks
    - 485.4 Popular works
    - 485.42 Juvenile works
    - 485.5 Addresses, essays, lectures
    - 485.55 Special aspects of the subject as a whole
    - Observations. Data summaries
      - 485.57 General works, treatises, and textbooks
      - 485.575.A-Z By region or country, A-Z
    - 485.6 Technique
    - 485.7 Instruments and apparatus
      - Cf. QC785.5+, Nuclear instruments and apparatus
    - 485.75 Handbooks, tables, formulas, etc.
    - 485.8.A-Z Special topics, A-Z
      - 485.8.B8 Bursts
      - 485.8.F6 Cosmic ray particles, see QC793.3.C6
      - 485.8.O7 Forbush decreases
      - 485.8.O7 Origin
      - 485.8.S5 Showers
      - 485.8.S8 Stars
      - 485.8.V3 Variations, Diurnal, etc.
        - Including effects due to altitude, longitude, etc.
    - 485.9.A-Z Special types, A-Z
      - 485.9.A8 Atmospheric cosmic rays
      - 485.9.G34 Galactic cosmic rays
      - 485.9.P7 Primary cosmic rays
      - 485.9.S4 Secondary cosmic rays
      - 485.9.S6 Solar cosmic rays
      - 485.9.U6 Underground cosmic rays
  - Other radiations
    - Alpha radiations, see QC793.5.A22+
    - Beta rays, see QC793.5.B42+
    - Cherenkov radiation
      - 490.4 General works, treatises, and textbooks
      - Instruments and apparatus, see QC787.C6
    - Gamma rays, see QC793.5.G32+
    - Infrared rays. Infrared spectrometry, see QC457
    - Radiation and spectra of isotopes, see QC795.8.S6
    - 491 Mössbauer effect. Mössbauer spectroscopy
    - Scintillation spectroscopy
      - 491.5 Periodicals, societies, congresses, serial collections, yearbooks
    - 492 General works, treatises, and textbooks
    - Instruments and apparatus, see QC787.S34
    - Van Allen radiation, see QC809.V3

## Radiation physics (General) -- Continued

## Color

- Cf. BF789.C7, Psychology
- Cf. ML3840, Music and color
- Cf. QD113, Colorimetry in analytic chemistry
- Cf. QD473, Color in relation to atomic structure
- Cf. QP483, Physiological effect
- Cf. RM840, Phototherapy
- Cf. TR510+, Color photography
- Cf. TR977, Photomechanical color processes
- 494 Periodicals, societies, congresses, serial collections, yearbooks
- 494.15 Collected works (nonserial)
- 494.2 Dictionaries and encyclopedias
- 494.3 Nomenclature, terminology, notation, abbreviations
- 494.7 History
- 494.8 Early works through 1800
- 495 General works, treatises, and advanced textbooks
- 495.15 Elementary textbooks
- 495.2 Pictorial works and atlases
- 495.3 Popular works
- 495.5 Juvenile works
- 495.7 Addresses, essays, lectures
- 495.8 Special aspects of the subject as a whole
- Study and teaching. Research
- 496 General works
- 496.15 Outlines, syllabi
- 496.3 Experiments
- 496.4 Laboratory manuals
- 496.6 Instruments and apparatus
  - Including colorimeters
- 496.8 Handbooks, manuals, etc.
- 496.9 Miscellany and curiosa
- Electricity and magnetism
  - Cf. QC960.5+, Atmospheric electricity
  - Cf. TK1+, Electrical engineering
- Electricity
  - Including works which deal collectively with electricity and magnetism
  - For electric properties of solids, see QC176.8.E35
- 501 Periodicals, societies, congresses, serial collections, yearbooks
- 503 Collected works (nonserial)
- 505 Dictionaries and encyclopedias
- 506 Philosophy. Theory
- 506.5 Nomenclature, terminology, notation, abbreviations
- 507 History
- Biography
  - Collective
  - Individual, A-Z
    - e.g.
    - Ampère
- 514
- 515.A-Z
- 515.A6

## Electricity and magnetism

## Electricity

## Biography

Individual, A-Z -- Continued

515.O4

Ohm

## Early works

516

Through 1700

517

1701-1850

## General works, treatises, and advanced textbooks

1851-1969

518

Treatises

521

Descriptive and experimental works

522

1970-

523

## Elementary textbooks

527

## Popular works

527.2

## Juvenile works

527.4

## Addresses, essays, lectures

527.5

## Special aspects of the subject as a whole

528.A-Z

## Special topics, A-Z

528.E4

Electromechanical analogies

Maxwell's equations, see QC669 +

Vector theory

528.V4

529

## Handbooks, tables, formulas, etc.

## Study and teaching. Research

For programmed texts, see QC518 +

530

## General works

531

## Outlines, syllabi

532

## Problems, exercises, examinations

533

## Experiments

534

## Laboratory manuals

## Electric measurements

Cf. TK275 +, Electrical engineering

535

## General works

536

## Electric units

537

## Standards

## Laboratories

## General works

541.A1

By region or country, A-Z

541.A3-Z

Apply table at QC51.A3-Z

## Instruments and apparatus (General)

General works, treatises, and textbooks

543

## Special instruments, A-Z

544.A-Z

(544.A5)

Ammeter

see QC645

(544.C3)

Cathode ray tubes

see TK7871.73

Coils, see QC645

544.C8

Current balance

Cyclotrons, see QC787.C8

Decremeters, see QC667

Electric meters, see TK301 +

544.E3

Electrodynamometer

544.E4

Electrometer

QC

## Electricity and magnetism

## Electricity

## Instruments and apparatus (General)

## Special instruments, A-Z -- Continued

- 544.E45 Electrophorus
- 544.E5 Electrostatic lenses
- 544.G2 Galvanometer
- (544.G3) Gas tubes
  - see TK7871.8-84
- 544.P5 Phonic wheel
- 544.P8 Potentiometer
- 544.Q3 Quadruple lenses
- (544.V3) Vacuum tubes
  - see TK7871.72-79

561

## Miscellany and curiosa

## Electrostatics. Frictional electricity

- Cf. QA825+, Attractions and potential
  - Cf. QC960.5+, Atmospheric electricity
  - Cf. TP156.E5, Electrostatic separation
- 570 Periodicals, societies, congresses, serial collections, yearbooks
- 571 General works, treatises, and textbooks
- 571.4 Juvenile works
- 571.5 Addresses, essays, lectures
- 572 Study and teaching. Research
  - General works
  - Experiments
- 572.4
- 573 Instruments and apparatus
  - Including frictional and induction machines
- 577 Electrocapillary phenomena
- 581.A-Z Other topics, A-Z
- 581.E4 Electric charge and distribution
- 581.I5 Induction
- 581.P6 Potential difference
- 581.V6 Volta effect
- Dielectrics
  - Cf. TK3401+, Electric insulation
- 584 Periodicals, societies, congresses, serial collections, yearbooks
- 584.2 Collected works (nonserial)
- 585 General works, treatises, and textbooks
- 585.4 Addresses, essays, lectures
- 585.5 Study and teaching. Research
- 585.7.A-Z Special topics, A-Z
- 585.7.B7 Breakdown
- 585.7.C6 Constant
- 585.7.D5 Dielectrophoresis
- 585.7.E43 Electric discharge
- 585.7.H4 Heating
- 585.7.L6 Loss
- 585.7.M3 Magnetic properties
- 585.7.O6 Optical properties
- 585.7.R3 Radiation effects

- Electricity and magnetism
  - Electricity
    - Electrostatics. Frictional electricity
    - Dielectrics
      - Special topics, A-Z -- Continued
      - Relaxation
    - Specific dielectric substances, A-Z
    - Silica
    - Special types of dielectrics, A-Z
      - Electrets
      - Gaseous
      - Liquid
    - Measurement of capacity
      - Cf. TK2805, Condensers (Dynamoelectric machinery)
      - Cf. TK7872.C65, Condensers (Electronics)
  - Pyroelectricity
    - Cf. QD939, Electric properties of crystals
    - Cf. TK7872.O7, Oscillators
  - Piezoelectricity
    - Cf. TK7872.P54, Piezoelectric devices
  - Ferroelectricity
    - Cf. QC715.17, Photoferroelectric effect
    - Cf. QD939, Electric properties of crystals
  - Periodicals, societies, congresses, serial collections, yearbooks
  - General works, treatises, and textbooks
  - Addresses, essays, lectures
  - Electric current (General)
    - Cf. QC641, Alternating currents
    - Cf. QD551+, Electrolysis
    - Cf. TK454+, Electric circuits and networks
  - General works
  - Ohm's law
  - Conduction in gases and vapors
    - see QC710-QC715.4
  - Electric conductivity
    - Cf. TK3301+, Electric conductors
  - Periodicals, societies, congresses, serial collections, yearbooks
  - General works, treatises, and textbooks
  - Electric resistance
    - Cf. QC761+, Magnetic induction
    - Cf. QC809.E15, Earth resistance
    - Cf. TK7872.R4, Electric resistors
  - General works
  - Magnetoresistance
  - Semiconductor physics
    - Class here general works on the physical properties of semiconductor materials
    - Cf. QC176.8.E4, Solid-state electronics
    - For works on semiconductor materials used in electronic engineering, see TK7871.85+

## Electricity and magnetism

## Electricity

## Electric current (General)

## Electric conductivity

## Semiconductor physics -- Continued

- 610.9 Periodicals, societies, congresses, serial collections, yearbooks
- 610.92 Collected works (nonserial)
- 610.94 Nomenclature, terminology, notation, abbreviations
- 610.96 History
- 611 General works, treatises, and textbooks
- 611.2 Addresses, essays, lectures
- 611.24 Special aspects of the subject as a whole
- 611.26 Study and teaching. Research
- 611.28 General works
- 611.3 Problems, exercises, examinations
- 611.4 Laboratory manuals
- 611.45 Instruments and apparatus
- 611.6.A-Z Handbooks, tables, formulas, etc.
- 611.6.A36 Special topics, A-Z
- 611.6.D4 Acoustic properties
- 611.6.D5 Defects
- 611.6.D6 Diffusion
- 611.6.E43 Doping
- 611.6.E45 Electron-hold droplets
- 611.6.G3 Electron transport
- 611.6.H6 Energy-band theory, see QC176.8.E4
- 611.6.H67 Galvanometric effects
- 611.6.J85 Holes
- 611.6.M64 Hot carriers
- 611.6.O6 Junctions
- 611.6.P52 Molecular beam epitaxy
- 611.6.P55 Optical effects
- 611.6.R3 Photoelectromagnetic effects
- 611.6.R43 Plasma effects
- 611.6.S9 Radiation effects
- 611.6.T4 Recombination
- 611.8.A-Z Reliability, see TK7871.85 +
- 611.8.A44 Surface properties
- 611.8.A5 Thermal properties
- 611.8.C34 Specific semiconducting substances and types, A-Z
- 611.8.C45 Alloys
- 611.8.C6 Amorphous substances
- 611.8.C64 Cadmium arsenide
- 611.8.D66 Chalcopyrite
- 611.8.G3 Compensated semiconductors
- 611.8.G4 Compound semiconductors
- 611.8.L5 Doped semiconductors
- Gallium arsenide
- Germanium
- Liquids



- Electricity and magnetism
    - Electricity
      - Electric current (General)
        - Electric conductivity
          - Semiconductor physics
            - Specific semiconducting
              - substances and types, A-Z -- Continued
            - Magnetic substances
            - Many-valley semiconductors
            - Mercury telluride
            - Metal oxides
            - Narrow gap semiconductors
            - Ore minerals
            - Organic substances
            - Polycrystalline semiconductors
            - Rare earths
            - Selenium
            - Semimetals
            - Silicon
            - Superlattices
            - Tellurium
            - Wide gap semiconductors
          - Superconductivity physics
            - Cf. QC175.4+, Superfluid physics
- 611.9
  - Periodicals, societies, congresses, serial collections
- 611.917
  - History
- 611.92
  - General works, treatises, and textbooks
- 611.922
  - Juvenile works
- 611.924
  - Handbooks, tables, formulas, etc.
  - Superconducting materials. Superconductors
    - Cf. QC761.3, Superconducting magnets
    - Cf. TK7872.C77, Cryoelectronic devices
    - Cf. TK7872.S8, Engineering
    - Cf. TK7895.C7, Cryotrons
- 611.94
  - Periodicals, societies, congresses, serial collections
- 611.95
  - General works, treatises, and textbooks
- 611.96
  - Study and teaching. Research
    - General works
      - By region or country
        - United States
          - General works
            - By region or state, A-Z
            - Other regions or countries, A-Z
- 611.962
  - Special topics, A-Z
- 611.964.A-Z
  - Chemistry
- 611.966.A-Z
  - Equilibrium
    - Including nonequilibrium
- 611.97.A-Z
  - Fluctuations
- 611.97.C54
  - Magnetic properties
- 611.97.E69
  - Nonequilibrium, see QC611.97.E69
- 611.97.F58
  - Radiation effects
- 611.97.M34
  -
- 611.97.R33
  -

- Electricity and magnetism
  - Electricity
    - Electric current (General)
      - Electric conductivity
        - Superconductivity physics
          - Superconducting materials.
            - Superconductors
              - Special topics, A-Z -- Continued
                - 611.97.T46 Temperature effects
                  - Including transition temperature
                - 611.97.T54 Thermal properties
                  - Transition temperature, see QC611.97.T46
                - 611.97.T86 Tunneling
                - 611.98.A-Z Special superconducting materials or types
                  - of superconductors, A-Z
                    - 611.98.A44 Alloys
                    - 611.98.A48 Aluminum
                    - 611.98.A58 Anyon superconductivity
                    - 611.98.C47 Ceramic superconductors
                    - 611.98.C53 Chalcogenides
                    - 611.98.C63 Composites
                    - 611.98.C64 Copper
                    - 611.98.D33 d-band metals
                    - 611.98.D57 Dirty superconductors
                    - 611.98.H54 High temperature superconductors
                    - 611.98.M34 Magnetic
                    - 611.98.N54 Niobium
                    - 611.98.O74 Organic superconductors
                    - 611.98.T37 Ternary superconductors
                    - 611.98.T55 Thin film superconductors
                    - 611.98.T86 Type I superconductors
                    - 611.98.T87 Type II superconductors
                    - 611.98.V35 Vanadium
                    - 611.98.Z56 Zinc
      - 612.A-Z Other special topics, A-Z
        - 612.H3 Hall effect
          - Cf. TK7872.H3, Hall effect devices
        - 612.P5 Photoconductivity
          - Cf. TK8330+, Photoconductive cells
        - 612.P6 Potential barrier
        - 612.S6 Skin effect
          - Superconductivity, see QC611.9+
      - 613 Electric resonance
        - Cf. QC762, Nuclear magnetism
        - Cf. QC794.6.R4, Nuclear interaction
      - 615 Measurements of currents
        - Including ammeter, voltmeter
      - 618 Electromotive force
        - Including voltmeter
      - Thermoelectricity. Thomson effect. Peltier effect
        - Cf. TK2950+, Applied thermoelectricity
      - 621 General works

## Electricity and magnetism

## Electricity

## Electric current (General)

Thermoelectricity. Thomson  
effect. Peltier effect -- Continued

623

Heating effects of currents

625

## Electrokinetics

## Electrodynamics

Cf. QA920, Magnetohydrodynamic theory

Cf. QC717+, Ion flow dynamics

Cf. QC718.5.M36, Magnetohydrodynamics (Plasma  
physics)

Cf. QC809.E55, Geophysics

630

Periodicals, societies, congresses, serial  
collections, yearbooks

630.15

Collected works (nonserial)

630.2

Dictionaries and encyclopedias

630.5

History

631

General works, treatises, and textbooks

631.2

Addresses, essays, lectures

631.3

Special aspects of the subject as a whole

Study and teaching. Research

631.7

General works

631.75

Problems, exercises, examinations

631.8

Laboratory manuals

638

Inductance. Induction

641

Alternating currents (Theory)

Cf. TK1141+, Alternating current  
engineering

Cf. TK2711+, Alternating current machinery

## Electric corona

642.5

Periodicals, societies, congresses, serial  
collections, yearbooks

643

General works, treatises, and textbooks

643.5

Instruments and apparatus

643.7.A-Z

Special topics, A-Z

643.7.D5

Discharge

643.7.P7

Pressure

645

## Electric coils

Including induction coils

Cf. TK2391, Electric coils (Dynamoelectric  
machinery)Cf. TK2805, Condensers (Dyanmoelectric  
machinery)

Cf. TK7872.C56, Electronics

648

Vacuum polarization

## Electric oscillations. Electric waves

Including electromagnetic waves

Cf. QB460+, Astrophysics

Cf. QC809.E55, Cosmic electrodynamics

660.5

Periodicals, societies, congresses, serial  
collections, yearbooks

661

General works, treatises, and textbooks

## Electricity and magnetism

## Electricity

## Electric oscillations.

Electric waves -- Continued

662

Addresses, essays, lectures

665.A-Z

Special topics, A-Z

665.D3

Damping

665.D5

Diffraction

665.D54

Diffusion

665.E36

Electric displacement

665.E38

Electric fields

665.E4

Electromagnetic fields

665.E45

Electromechanical analogies

665.P5

Photoabsorption

665.P6

Polarization

665.Q3

Quadrupole moment

665.S3

Scattering

665.T7

Transmission

665.V4

Velocity

Study and teaching. Research

666

General works

666.5

Problems, exercises, examinations

667

Instruments and apparatus

Including decimeters

Electromagnetic theory

Including Maxwell's equations

669

Periodicals, societies, congresses, serial  
collections, yearbooks

670

General works, treatises, and textbooks

Study and teaching. Research

670.7

General works

670.75

Problems, exercises, examinations

671

Aberrations and moving media

Cf. QB163, Correction of astronomical  
observations

Electrooptics (General)

Cf. TA1750 +, Applied electrooptics

673

General works

673.5.A-Z

Special topics, A-Z

673.5.K4

Kerr effect

Magnetooptics (General)

General works

675

Special topics, A-Z

675.5.A-Z

Faraday effect

675.5.F3

Zeeman effect

675.5.Z4

Microwave optics (General)

675.8

Radio waves (Theory)

Cf. QC972.6 +, Radio meteorology

Cf. TK6540 +, Radio engineering

676

Periodicals, societies, congresses, serial  
collections, yearbooks

676.4

General works, treatises, and textbooks

676.6

Addresses, essays, lectures

- Electricity and magnetism  
 Electricity  
 Electric oscillations. Electric waves  
 Radio waves (Theory) -- Continued  
 Special topics, A-Z  
 676.7.A-Z  
 676.7.D5  
 676.7.S3  
 676.7.S35  
 676.7.T7  
     Diffraction  
     Scattering  
     Scintillation  
     Transmission  
 Microwaves (Theory)  
     Cf. QC718.5.M5, Plasma physics  
     Cf. TK7871.4, Masers  
     Cf. TK7876+, Electronics  
 677  
     Periodicals, societies, congresses, serial  
     collections, yearbooks  
 678  
 678.2  
     General works, treatises, and textbooks  
     Addresses, essays, lectures  
     Study and teaching. Research  
 678.4  
 678.6  
     General works  
     Laboratory manuals  
 Quantum electrodynamics  
     Cf. QC793.3.E4, Elementary particle physics  
 679  
     Periodicals, societies, congresses, serial  
     collections, yearbooks  
 679.6  
 680  
 680.5  
     Collected works (nonserial)  
     General works, treatises, and textbooks  
     Addresses, essays, lectures  
 Quantum electronics  
     Including maser and laser physics  
     Cf. TA1671+, Lasers  
     Cf. TK7871.4, Masers  
 685  
     Periodicals, societies, congresses, serial  
     collections, yearbooks  
 686  
 687  
 687.2  
 688  
 689  
     General works, treatises, and textbooks  
     Addresses, essays, lectures  
 689.5.A-Z  
 689.5.L35  
 689.5.L37  
 689.55.A-Z  
 689.55.S45  
 700  
     Special topics, A-Z  
     Laser manipulation  
     Laser pulses  
     Special types of lasers, A-Z  
     Semiconductor lasers  
 Field emission  
 Electric discharge  
 701  
     General works, treatises, and textbooks  
 Ions. Ionization. Thermionic emission (General)  
     Cf. QC972.6+, Radio meteorology  
     Cf. QD561+, Electrochemistry  
     Cf. QD601+, Radiochemistry  
 701.7  
     Periodicals, societies, congresses, serial  
     collections, yearbooks  
 702  
     General works, treatises, and textbooks

## Electricity and magnetism

## Electricity

## Electric discharge

Ions. Ionization. Thermionic emission (General) -- Continued

702.3

Instruments and apparatus

Cf. QC787.I6, Ionization chambers

702.5

Ionization of specific gases, liquids, etc.

702.7.A-Z

Other special topics, A-Z

702.7.A9

Auger effect

702.7.B65

Bombardment

702.7.E38

Electron impact ionization

702.7.E4

Emission, Secondary ion

702.7.H42

Heavy ions

702.7.I55

Ion implantation

702.7.I57

Ion swarms

Magnetic ions, see QC754.2.M333

702.7.M84

Multiply charged ions

702.7.N4

Negative ions. Anions

702.7.P48

Photoionization

Class here works on the physics of ionization produced by photons of light, X-rays or gamma rays.

For general works on chemical and physical aspects of photoionization, see QD716.P48

702.7.P6

Positive ions

702.7.R4

Recombination of ions

702.7.S3

Scattering

Secondary ion emission, see QC702.7.E4

Spark discharge (General)

Cf. QC454.A+, Spectra of special elements

Cf. QC966+, Lightning

703

General works

703.5

Breakdown of spark

703.7

Exploding wire phenomenon

705

Arc discharge

Cf. TK4311+, Arc lighting

Electric discharge through gases

Including cathode rays, canal rays

Cf. QC480.8+, X-rays

Cf. QC793.5.E62+, Electron emission

Cf. TK7871.7+, Electron tubes

710

Periodicals, societies, congresses, serial collections, yearbooks

711

General works, treatises, and textbooks

711.3

Addresses, essays, lectures

711.4

Special aspects of the subject as a whole

711.6.A-Z

Electric discharge through specified gases, A-Z

711.6.A7

Argon

711.6.O9

Oxygen

711.8.A-Z

Special topics, A-Z

711.8.A34

Afterglow

- Electricity and magnetism
    - Electricity
      - Electric discharge
        - Electric discharge through gases
        - Special topics, A-Z -- Continued
          - Breakdown of spark
          - Dissociation
          - Glow discharge
          - Polarization
          - Radio frequency discharges
      - Photoelectricity. Photoelectric cells
        - Including other effects of light, X-rays, etc., on discharge
        - Cf. QC391, Photometry
        - Cf. QC793.5.P42+, Photons
        - Cf. QC794.8.P4, Photonuclear interactions
        - Cf. QD701+, Photochemistry
        - Cf. TK8300+, Photoelectronic devices
    - General works
    - Photoemission
    - Photoferroelectric effect
    - Photoelectric properties of special substances
      - Including sensitivity
    - Photoelectric cells
      - Including photovoltaic effect
  - Ion flow dynamics
    - General works
    - Special topics, A-Z
    - Ionic mobility
  - Plasma physics. Ionized gases
    - Cf. QA920, Magnetohydrodynamics
    - Cf. QC790.95+, Nuclear fusion
    - Cf. QC809.P5, Plasma (Cosmic physics)
    - Cf. TA2001+, Plasma engineering
    - Cf. TK2970, Magnetohydrodynamic generators
    - Cf. TL783.6, Plasma rockets
- Periodicals, societies, congresses, serial collections, yearbooks
- Collected works (nonserial)
- General works, treatises, and textbooks
- Addresses, essays, lectures
- Special aspects of the subject as a whole
- Special topics, A-Z
  - Accelerators, see QC718.5.M36
  - Collisions with matter, see QC718.5.P5
  - Collisions with particles, see QC718.5.P55
  - Conductivity, see QC718.5.T7
  - Confinement
  - Controlled fusion, see QC791.7+
  - Cyclotron waves
  - Dense plasma focus
  - Density
  - Diagnostics

## Electricity and magnetism

## Electricity

Plasma physics. Ionized gases

Special topics, A-Z -- Continued

Diffusion, see QC718.5.T7

Drift

Dynamics

Electric fields

Electrodynamics

Electromagnetics

Electron oscillations and resonances, see

QC718.5.W3

Electrostatics

Equilibrium

Including nonequilibrium

Heat conduction, see QC718.5.T7

High temperature

Hydrodynamics

Instabilities, see QC718.5.S7

Ion waves, see QC718.5.W3

Kinetics, see QC718.5.T5

Laser-produced plasmas

Low temperature

Magnetic fields

Magnetohydrodynamics

Including plasma accelerators

Cf. QA920, Magnetohydrodynamic theory

Microwaves

Neutrality

Including nonneutrality

Nonequilibrium, see QC718.5.E66

Optical phenomena

Oscillations, see QC718.5.W3

Pinch effect

Plasma accelerators, see QC718.5.M36

Plasma reactions with matter

Plasma reactions with particles

Plasma resonance, see QC718.5.W3

Plasmoids

Q-machines

Radiation

Sheaths

Cf. TL3028, Space vehicle communication systems

Shock waves, see QC718.5.W3

Spectroscopy

Stability

Including instability

Statistical behavior

Strongly coupled plasmas

Thermodynamics

718.5.D7

718.5.D9

718.5.E37

718.5.E4

718.5.E45

718.5.E48

718.5.E66

718.5.H5

718.5.H9

718.5.L3

718.5.L6

718.5.M3

718.5.M36

718.5.M5

718.5.N4

718.5.O6

718.5.P45

718.5.P5

718.5.P55

718.5.P58

718.5.Q17

718.5.R3

718.5.S4

718.5.S6

718.5.S7

718.5.S78

718.5.S83

718.5.T5



- Electricity and magnetism
- Electricity
- Plasma physics. Ionized gases
- Special topics, A-Z -- Continued
- 718.5.T7 Transport  
Including diffusion, conductivity, heat  
conductance, velocity
- 718.5.T8 Turbulence
- Velocity, see QC718.5.T7
- 718.5.W3 Waves
- Study and teaching. Research
- 718.6 General works
- 718.612 Problems, exercises, examinations
- 718.613 Experiments
- Laboratories
- 718.614 General works
- 718.615.A-Z Individual laboratories, A-Z
- 718.62 Technique
- 718.64 Instruments and apparatus
- 718.7 Handbooks, tables, formulas, etc.
- 718.8 Miscellany and curiosa
- (721) Physics of electrons, protons, and other particles  
see QC793-QC793.5
- Magnetism
- Cf. QB462.8, Cosmic magnetic fields
- Cf. QC176.8.M3, Solid-state physics
- Cf. QC718.5.M36, Plasma physics
- Cf. QC811+, Geomagnetism
- Cf. QD591, Magnetochemistry
- 750 Periodicals, societies, congresses, serial  
collections, yearbooks
- 750.15 Collected works (nonserial)
- 750.3 Philosophy. Theory
- 750.4 History
- 751 Early works through 1800
- General works, treatises, and textbooks
- 753 1801-1969
- 753.2 1970-
- 753.5 Popular works
- 753.7 Juvenile works
- 753.8 Recreations  
Including amateur experiments
- 753.9 Addresses, essays, lectures
- 754 Special aspects of the subject as a whole
- 754.2.A-Z Special topics, A-Z
- 754.2.B35 Band theory
- 754.2.E3 Electromechanical analogies
- 754.2.H9 Hysteresis
- 754.2.M3 Magnetic fields  
Cf. QC809.M25, Cosmic magnetism
- 754.2.M32 Magnetic force
- 754.2.M33 Magnetic induction
- 754.2.M333 Magnetic ions

## Electricity and magnetism

## Magnetism

## Special topics, A-Z -- Continued

754.2.M336

Magnetic structure

754.2.M34

Magnetization

754.2.M35

Magnetostatics

754.2.M36

Magnetostriction

754.2.P4

Permeability

754.2.P45

Photomagnetic effect

754.2.P6

Potential

754.2.Q34

Quantum theory

754.2.S8

Susceptibility

Therapeutic use, see RZ422

## Study and teaching. Research

755

General works

755.2

Problems, exercises, examinations

755.3

Experiments

Cf. QC753.8, Amateur experiments

755.4

Laboratory manuals

## Magnetic measurements

755.6

General works

755.65

Units and standards

## Instruments and apparatus

755.67

General works, treatises, and textbooks

755.675.A-Z

Special instruments, A-Z

755.675.H9

Hysteresigraph

755.7

Handbooks, tables, formulas, etc.

755.8

Miscellany and curiosa

## Magnets

756.7

Periodicals, societies, congresses, serial collections, yearbooks

757

General works, treatises, and textbooks

757.5

Juvenile works

757.7

Addresses, essays, lectures

757.9

Permanent magnets

757.92

Wiggler magnets

## Electromagnetism. Electromagnetics

Cf. QH656, Magnetic fields (Cytology)

759.6

Periodicals, societies, congresses, serial collections, yearbooks

759.8

History

760

General works, treatises, and textbooks

760.2

Juvenile works

760.25

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760.4.A-Z

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760.4.M33

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## Study and teaching. Research

760.5

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760.52

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760.54

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760.6

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## Electricity and magnetism

## Magnetism

## Electromagnetism.

## Electromagnetics -- Continued

## Electromagnets

Cf. QC787.C3, Calutrons

Cf. TJ1366, Lifting magnets

Cf. TK454.4.E5, Electrical engineering

761

General works

761.2

Juvenile works

761.3

Superconducting magnets

Paleomagnetism, see QE501.4.P35

761.4

Ferrimagnetism

Cf. QC766.F3, Ferrites

761.5

Ferromagnetism. Antiferromagnetism

761.8

Thermomagnetism

Nuclear magnetism

761.9

General works

762

Nuclear magnetic resonance

762.6.A-Z

Other special topics, A-Z

762.6.A25

Acoustic nuclear magnetic resonance

762.6.E45

Electron nuclear double resonance

762.6.G53

Giant nuclear magnetic resonance

762.6.H94

Hyperfine interactions

762.6.R44

Relaxation

762.6.S64

Spin-lattice relaxation

762.6.S65

Spin waves

Paramagnetism

762.9

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763

Electron paramagnetic resonance

764

Diamagnetism

Magnetic materials

764.5

Cf. TK454.4.M3, Electrical engineering  
Periodicals, societies, congresses, serial  
collections, yearbooks

764.52

Dictionaries and encyclopedias

765

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766.A-Z

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766.A4

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766.C6

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766.F3

Cobalts

Ferrites

766.I7

Fluids, Magnetic, see QC766.M36

766.M34

Iron

766.M36

Magnetic alloys

766.M4

Magnetic fluids

766.R3

Metallic oxides

766.T56

Rare earths

Thorium

- Nuclear and particle physics. Atomic energy.  
 Radioactivity  
 Cf. QC170+, Constitution of matter. Atomic physics  
 Cf. QD601+, Radiochemistry  
 Cf. TK9001+, Nuclear engineering  
 Cf. UG1282.A8, Atomic bombs
- 770 Periodicals, societies, congresses, serial collections, yearbooks
- 771 Collected works (nonserial)
- 772 Dictionaries and encyclopedias  
 Communication of information
- 772.2 General works
- 772.4 Information services
- History
- 773.A1 Development and projects leading to production of first atomic bombs
- 773.A2-Z General works
- 773.3.A-Z By region or country, A-Z
- Biography
- 774.A2 Collective
- 774.A3-Z Individual, A-Z
- 774.2 Directories
- 776 General works, treatises, and advanced textbooks
- 777 Elementary textbooks
- 778 Popular works
- 778.5 Juvenile works
- 780 Addresses, essays, lectures
- 782 Special aspects of the subject as a whole
- 782.5.A-Z Special topics, A-Z
- 782.5.P4 Photography  
 Cf. QC787.N78, Nuclear emulsions
- 783 Handbooks, tables, formulas, etc.  
 Data processing
- 783.3 General works, treatises, and textbooks
- 783.4 Laboratory manuals
- 783.5 Pictorial works and atlases
- Study and teaching
- 783.8 General works
- 783.85 Problems, exercises, examinations
- 784 Laboratory manuals
- 784.5 Atomic and nuclear measurements  
 Including atomic units
- Instruments and apparatus
- 785.5 Periodicals, societies, congresses, serial collections, yearbooks
- 785.7 Collected works (nonserial)
- 786 General works, treatises, and textbooks
- 786.2 Addresses, essays, lectures  
 Nuclear reactors for research. Reactor physics  
 Cf. TK9202+, Nuclear reactor engineering
- 786.4 Periodicals, societies, congresses, serial collections, yearbooks

- Nuclear and particle physics. Atomic energy. Radioactivity  
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- 786.45 Directories  
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 786.55 Addresses, essays, lectures  
 786.6.A-Z Special topics, A-Z  
     Accidents, see TK9001 +  
 786.6.C6 Computer programs  
 786.6.D4 Design and construction  
     Fuel elements, see TK9360  
 786.6.K5 Kinetics  
 786.6.P68 Power distribution  
 786.6.S73 Statistical methods  
 786.6.T4 Thermal neutrons  
     Cf. QC793.5.T42 +, Elementary particle physics
- Study and teaching. Research
- 786.7 General works  
 786.75 Experiments  
 786.8 Handbooks, tables, formulas, etc.
- 787.A-Z Other instruments, A-Z  
 787.B4 Betatrons  
     Bevatron, see QC787.S9  
 787.B8 Bubble chambers  
 787.C3 Calutrons  
 787.C56 Cloud chambers  
 787.C58 Coincidence circuits  
     Cold cathode tubes, see TK7871.84.C6  
 787.C59 Colliders  
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     Cf. TK9180, Nuclear engineering
- 787.C8 Cyclotrons  
 787.D35 Damping rings  
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 787.E39 Electron accelerators  
 787.E4 Electrostatic accelerators  
 787.E42 Electrostatic analyzers  
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 787.H53 High-brightness accelerators  
 787.I6 Ionization chambers  
 787.K55 Klystrons  
 787.L5 Linear accelerators  
 787.L53 Linear colliders  
 787.M3 Magnetic analyzers  
 787.N78 Nuclear emulsions  
 787.N83 Nuclear track detectors  
 787.O6 Optical instruments  
 787.P3 Particle accelerators (General)  
     Cf. TK9340, Nuclear engineering

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- 787.P34 Particle analyzers  
787.P46 Photoelectric multipliers, see TK8314  
787.P69 Photon detectors  
787.P7 Proportional counters  
787.P73 Proton accelerators  
787.P73 Proton antiproton colliders  
Including proton synchrotron colliders
- 787.P8 Pulse height analyzers  
787.R43 Recirculating electron accelerators  
787.S3 Scanning systems  
787.S34 Scintillation counters  
787.S4 Sector focused cyclotrons  
787.S45 Self-quenching counters  
787.S55 Spark chambers  
787.S6 Spectrometer  
787.S8 Storage rings  
787.S83 Supercolliders  
Including Superconducting Super Collider
- 787.S85 Synchrocyclotrons  
787.S9 Synchrotrons  
787.T35 Targets  
787.V3 Van de Graaff generators  
787.V45 Vertex detectors
- Research  
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- 788 General works  
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- 789.7 Periodicals, societies, congresses, serial collections, yearbooks
- 790 General works, treatises, and textbooks  
790.3 Addresses, essays, lectures  
790.4.A-Z Special topics, A-Z  
790.4.A6 Angular distribution  
790.4.E6 Delayed neutrons, see QC793.5.D42 +  
790.4.F5 Energy loss  
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790.4.P4 Neutron transport theory, see QC793.3.T7  
790.4.P5 Photofission  
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790.8.A-Z Instruments and apparatus  
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- Nuclear fusion  
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- Nuclear and particle physics. Atomic energy. Radioactivity
- Nuclear fusion -- Continued
- 790.95 Periodicals, societies, congresses, serial collections, yearbooks
- 790.97 Collected works (nonserial)
- 791 General works, treatises, and textbooks
- 791.4 Popular works
- 791.5 Juvenile works
- 791.6 Addresses, essays, lectures
- Controlled fusion
- 791.7 Periodicals, societies, congresses, serial collections, yearbooks
- 791.72 Collected works (nonserial)
- 791.725 Directories
- 791.73 General works, treatises, and textbooks
- 791.735 Popular works
- 791.74 Addresses, essays, lectures
- Study and teaching. Research
- 791.745 General works
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    - United States
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  - 791.77.S7 Stellarators
  - 791.775.A-Z Special topics, A-Z
  - 791.775.C64 Cold fusion
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  - 791.8.A-Z Other special topics, A-Z
  - Neutron transport theory, see QC793.3.T7
  - Thermonuclear reactions, see QC791.7+
- Atomic energy
  - Cf. BR115.A83, Moral and religious aspects
  - Cf. HD9698+, Economic aspects
  - Cf. QC913.2.A8, Meteorological aspects
  - Cf. TK9001+, Atomic power
- 791.9 Periodicals, societies, congresses, serial collections, yearbooks
- 791.915 Collected works (nonserial)
- 791.92 Dictionaries and encyclopedias
- Communication of information
- 791.93 General works
- 791.94 Information services
- Nuclear regulatory commissions
- 791.948 General works
- 791.95.A-Z By region or country, A-Z
- 791.96 History
- 791.98 Directories
- 792 General works, treatises, and textbooks
- 792.4 Popular works

- Nuclear and particle physics. Atomic energy. Radioactivity  
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- 792.5 Juvenile works  
792.6 Addresses, essays, lectures  
792.7 Special aspects of the subject as a whole  
Including peaceful uses of atomic energy  
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- 792.72.A-Z General works  
792.72.Z9 Catalogs of audiovisual materials  
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792.74 Other regions or countries, A-Z
- Laboratories  
792.79 General works  
792.8.-Z By region or country, A-Z  
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- Elementary particle physics  
Cf. QC170+, Structure of matter and other theories
- 793 Periodicals, societies, congresses, serial collections, yearbooks  
793.12 Collected works (nonserial)  
793.13 Philosophy  
793.15 Classification  
793.16 History  
793.2 General works, treatises, and advanced textbooks  
793.24 Elementary textbooks  
793.26 Popular works  
793.27 Juvenile works  
793.28 Addresses, essays, lectures  
793.29 Special aspects of the subject as a whole  
793.3.A-Z Special topics, A-Z  
793.3.A4 Algebra of currents  
Cf. QC174.52.A43, Quantum field theory  
793.3.A5 Angular momentum  
793.3.B4 Particle beams  
793.3.B5 Binding energy. Nuclear forces  
793.3.B6 Bootstrap theory  
793.3.C53 Charm  
Chirality, see QC793.3.A4  
793.3.C56 Collective excitations  
793.3.C58 Conservation laws  
793.3.C6 Cosmic ray and ionospheric influences  
793.3.C67 Coupling constants  
793.3.D4 Decay. Lifetime  
793.3.D43 Degree of freedom  
793.3.D5 Diffraction  
793.3.D55 Diffusion  
793.3.D9 Dynamics  
793.3.E4 Electrodynamics



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- 793.3.E45 Electromagnetism
- 793.3.E5 Electronic data processing, see QC793.47.E4  
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 Energy spectra, see QC793.5.A22 +  
 Exciton theory, see QC794.6.E9
- 793.3.E93 Exotic nuclei
- 793.3.F5 Field theories
- 793.3.G38 Flavor, see QC793.3.Q37  
 Gauge fields  
 Including gauge theories
- 793.3.H44 Helicity
- 793.3.H5 High energy physics  
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- 793.3.K5 Kinematics
- 793.3.L53 Lie algebras  
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 Nuclear cluster theory, see QC793.3.S8  
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- 793.3.N8 Nuclear matter
- 793.3.N82 Nuclear models, see QC793.3.S8  
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- 793.3.N83 Nuclear orientation, see QC793.3.S6  
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- 793.3.Q35 Quantum chromodynamics
- 793.3.Q37 Quantum flavor dynamics  
 Quantum theory, see QC174.45 +
- 793.3.R4 Regge trajectories  
 Cf. QC174.17.G7, Group theory applied to quantum theory  
 Relaxation, see QC762.6.R44  
 Renormalization theory, see QC174.17.R46  
 Resonance. Resonance integral, see QC794.6.R4  
 Scattering, see QC794.6.S3  
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- 793.3.S57 Space and time  
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- 793.3.S6 Spectroscopy, see QC454.N8  
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- 793.3.S77 Statistical mechanics
- 793.3.S8 Structure  
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- 793.3.S9 Symmetry. Invariance  
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- 793.3.T67 Tracks
- 793.3.T7 Transitions, see QC454.N8
- 793.3.V5 Transport theory
- 793.3.W3 Violations
- 793.3.W4 Wave mechanics
- 793.4 Weight diagrams
- 793.412 Study and teaching. Research
- 793.42 General works
- 793.46 Experiments
- 793.47.A-Z Problems, exercises, examinations
- 793.47.E4 Technique
- 793.47.P4 General works
- 793.47.S83 Special, A-Z
- 793.49 Electronic data processing
- 793.5.A-Z Photography. Nuclear emulsions
- 793.5.A22-A229 Statistical methods
- 793.5.A25-A259 Instruments and apparatus, see QC785.5 +
- 793.5.B32-B329 Miscellany and curiosa
- 793.5.B42-B429 Special nuclear and subnuclear particles,  
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- 793.5.B62-B629 Alpha particles. Alpha rays (Table Q2)
- 793.5.C64-C649 Anyons (Table Q2)
- 793.5.D42-D429 Baryons (Table Q2)
- 793.5.D442-D4429 Beta particles. Beta rays (Table Q2)
- 793.5.D482-D4829 Bosons (Table Q2)  
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- 793.5.E62-E629 Cold neutrons (Table Q2)  
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- 793.5.F32-F329 Delayed neutrons (Table Q2)
- 793.5.F42-F429 Delayed protons (Table Q2)
- 793.5.G32-G329 Deuterons (Table Q2)
- 793.5.G552-G5529 Electrons (Table Q2)  
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- 793.5.H32-H329 Fast neutrons (Table Q2)
- 793.5.H42-H429 Fermions (Table Q2)
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- 793.5.H32-H329 Hadrons (Table Q2)  
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- 793.5.H42-H429 Hyperons (Table Q2)  
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- 793.5.L42-L429 Leptons (Table Q2)  
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- 793.5.M32-M329 Magnons (Table Q2)
- 793.5.M42-M429 Mesons (Table Q2)  
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- 793.5.N42-N429 Neutrinos (Table Q2)
- 793.5.N462-N4629 Neutrons (Table Q2)
- 793.5.N82-N829 Nucleons (Table Q2)
- 793.5.N862-N8629 Nuclides (Table Q2)
- 793.5.P42-P429 Phonons, see QC176.8.P5  
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- 793.5.P62-P629 Positrons (Table Q2)
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- 793.5.Q252-Q2529 Quarks (Table Q2)
- 793.5.Q32-Q329 Quasi-particles (Table Q2)
- 793.5.S62-S629 Sigma particles, see QC793.5.H42 +
- 793.5.S72-S729 Slow neutrons (Table Q2)
- 793.5.S72-S729 Strange particles (Table Q2)
- 793.5.T32-T329 Tachyons (Table Q2)
- 793.5.T37-T379 Thermal electrons (Table Q2)
- 793.5.T42-T429 Thermal neutrons (Table Q2)
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- Nuclear interactions  
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- 793.9 Periodicals, societies, congresses, serial collections, yearbooks
- 793.95 Collected works (nonserial)
- 794 General works, treatises, and textbooks
- 794.5 Addresses, essays, lectures
- 794.6.A-Z Special topics, A-Z
- 794.6.A5 Angular distribution. Angular correlations
- 794.6.C58 Coherence

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- 794.6.C6 Collisions
  - 794.6.C7 Cross section of interactions
  - Decay, see QC794.6.R3
  - 794.6.E9 Excitation
    - Cf. QC795.8.E5, Energy levels
  - 794.6.F4 Feynman diagrams
  - 794.6.F65 Form factor
  - 794.6.G7 Grand unified theories
  - 794.6.I5 Internal conversion
  - 794.6.I8 Isotone shift. Isotope shift
  - 794.6.K5 Kinematics
  - 794.6.M6 Moments
  - 794.6.M85 Multiplicity
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  - 794.6.R25 Radiative capture
  - 794.6.R3 Radioactivity. Decay
  - 794.6.R4 Resonance. Resonance integral
  - 794.6.S3 Scattering
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  - 794.6.S75 Standard model
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  - 794.6.S85 String models
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  - 794.8.E4 Electromagnetic
    - Cf. QC793.5.P42 +, Photons
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  - 794.8.E93 Exclusive
  - 794.8.G7 Gravitational
  - 794.8.H4 Heavy ion induced
    - Including heavy ion collisions
  - 794.8.H5 High energy
    - Cf. QC793.3.H5, High energy physics
  - Hyperfine, see QC762.6.H94
  - 794.8.I52 Inclusive
  - 794.8.P4 Photonuclear
    - Cf. QC715 +, Photoelectricity
  - 794.8.S7 Spallation
  - 794.8.S8 Strong
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  - 794.8.W4 Weak
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  - Including ionizing radiation
  - Cf. QC474+, Radiation physics
  - Cf. QC913+, Meteorological aspects
  - Cf. QD601+, Radiochemistry
  - Cf. QE501.4.N9, Nuclear geophysics
  - Cf. QH543.5+, Radiobiology
- 794.95 Periodicals, societies, congresses, serial collections, yearbooks
- 794.96 Collected works (nonserial)
- 794.97 Dictionaries and encyclopedias
- 794.98 History
- 795 General works, treatises, and textbooks
- 795.26 Popular works
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- 795.28 Addresses, essays, lectures
- 795.3 Special aspects of the subject as a whole
- 795.32.A-Z Special topics, A-Z
  - 795.32.R3 Radiation dosimetry in physics
  - 795.32.S3 Safety measures for physicists
    - Cf. RA1231.R2, Toxicology
    - Cf. TK9152+, Nuclear engineering
- 795.34 Study and teaching. Research
  - 795.34 General works
  - 795.36 Experiments
  - 795.38 Laboratory manuals
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- Technique
  - Cf. TK9151.4+, Radiation environment procedures
- 795.4 General works
- 795.42 Measurement of radioactivity and ionizing radiation
- 795.5 Instruments and apparatus (General)
  - For individual instruments, see QC785.5+
- 795.52 Handbooks, tables, formulas, etc.
- 795.55.A-Z Special types of radioactivity, A-Z
  - 795.55.I5 Induced radioactivity
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- 795.6 Periodicals, societies, congresses, serial collections, yearbooks
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- 795.8.A-Z Special topics, A-Z  
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- 795.8.D4 Decay  
 795.8.E5 Energy levels  
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 795.8.N8 Nuclear isomers. Nuclear isobars  
 795.8.R3 Radionuclides  
 795.8.S6 Spectra  
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- 795.8.T45 Thermal properties  
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- 798.A1 General works, treatises, and textbooks  
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 798.D3 Dating  
 798.T7 Tracers
- Geophysics. Cosmic physics  
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- 801 Periodicals, societies, congresses, serial  
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- 801.3 International Geophysical Committee. International  
 Geophysical Year
- 801.4 International Years of the Quiet Sun  
 801.5 Collected works (nonserial)  
 801.9 Dictionaries and encyclopedias
- Observations  
 802.A1 General works, treatises, and textbooks  
 802.A2-Z By name of issuing observatory, A-Z  
 Prefer QC803
- 803.A-Z By region or country, A-Z
- 804 History  
 Biography
- 805.A2 Collective  
 805.A3-Z Individual, A-Z

- 806 Geophysics. Cosmic physics -- Continued  
 General works, treatises, and textbooks
- 806.4 Juvenile works
- 806.6 Addresses, essays, lectures
- 807 Special aspects of the subject as a whole  
 Study and teaching. Research
- 807.5 General works
- 807.52 Problems, exercises, examinations
- 807.6.A-Z By region or country, A-Z
- Observatories
- 808.A2 General works
- 808.A5-Z By region or country, A-Z  
*Under each country:*  
*.x General works*  
*.x2A-.x2Z Individual observatories. By name, A-Z*
- 808.5 Technique. Instructions for observers
- 808.6 Data processing
- 808.7 Instruments and apparatus
- 808.8 Handbooks, tables, formulas, etc.
- 809.A-Z Special topics, A-Z
- 809.A25 Acoustic phenomena
- 809.C6 Cosmic noise  
 Earth radiation, see QC809.T4
- 809.E15 Earth resistance
- 809.E2 Earth tides
- 809.E55 Electrodynamics  
 Cf. QB460+, Astrophysics
- 809.E6 Energy budget. Heat budget
- 809.F5 Fluid dynamics  
 Heat budget, see QC809.E6
- 809.M25 Magnetic fields. Geomagnetic micropulsations
- 809.M3 Magnetohydrodynamics
- 809.M35 Magnetosphere. Magnetopause
- 809.M37 Mathematics  
 Nuclear astrophysics, see QB463+  
 Nuclear geophysics, see QE501.4.N9
- 809.P3 Paleogeophysics
- 809.P5 Plasma
- 809.R3 Radiation  
 Solar wind, see QB529
- 809.T38 Terrestrial heat flow
- 809.T4 Terrestrial radiation
- 809.V3 Van Allen radiation belts
- Geomagnetism  
 Cf. QC750+, Magnetism  
 Cf. QE501.4.P35, Paleomagnetism
- 811 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 811.15 Collected works (nonserial)
- 813 History
- 814 Early works through 1800
- 815 General works, treatises, and textbooks  
 1801-1969

## Geomagnetism

- General works, treatises,  
and textbooks -- Continued
- 815.2 1970-
- 815.5 Juvenile works
- 815.7 Addresses, essays, lectures
- 816 Special aspects of the subject as a whole
- Observatories
- 818.A2 General works
- 818.A5-Z By region or country, A-Z  
Apply table at QC808.A5-Z
- 819 Instruments and apparatus  
Including magnetometer
- 820 Technique. Instruction for observers
- 820.6 Data processing
- 821 Handbooks, tables, formulas, etc.
- 822 Maps and mapping  
Including construction, use, and interpretation of  
maps
- Magnetic surveys  
Geographic areas below are not subarranged by  
country
- 825 General works
- 825.1 North America
- 825.2 Mexico, Central America, and West Indies
- 825.3 South America
- 825.4 Europe
- 825.5 Asia
- 825.6 Africa
- 825.7 Australia
- 825.75 New Zealand
- 825.8 Arctic regions
- 825.9 Antarctica
- 826.A-Z Oceanic areas, A-Z
- Geomagnetic field (Analysis and theory)
- 827 General works
- 828 Secular variation
- Magnetic observations
- 830.A-Z General works. By name of issuing observatory, A-Z
- 831 Diurnal variations
- 833 Other periodic variations
- 835 Magnetic disturbances  
Including magnetic storms
- Geomagnetism and related aspects
- 836 Sunspot periods
- 837 Eclipses
- 839 Meteorological phenomena
- 841 Geological structure
- 843 Earthquakes
- 845 Earth currents



- 849 Geomagnetism -- Continued  
 Deviation of the magnetic compass and other magnetic instruments. Magnetism of ships and aircraft  
 Cf. TL589.2.C6, Aeronautical instruments  
 Cf. VK577, Nautical instruments
- Meteorology. Climatology  
 Including the earth's atmosphere  
 Cf. GB2800+, Hydrometeorology  
 Cf. N72.M48, Art and meteorology  
 Cf. QB603.A85, Planetary meteorology  
 Cf. S600+, Agricultural meteorology  
 Cf. SD390.5+, Forest meteorology  
 Cf. SH343.3, Fishery meteorology  
 Cf. TA197+, Engineering meteorology  
 Cf. TL556+, Aeronautical meteorology  
 Cf. UG467, Military meteorology  
 For works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability, see QC980+
- 851 Periodicals, societies, congresses, serial collections, yearbooks
- 852 Collected works (nonserial)
- 854 Dictionaries and encyclopedias
- 854.2 Nomenclature, terminology, notation, abbreviations
- History
- 855 General works
- 857.A-Z By region or country, A-Z
- Biography
- 858.A2 Collective
- 858.A3-Z Individual, A-Z
- 859 Early works through 1800  
 General works, treatises, and advanced textbooks
- 861 1801-1969
- 861.2 1970-
- 863 Elementary textbooks
- 863.4 Popular works  
 Including works for hobbyists
- 863.5 Juvenile works
- 864 Handbooks, tables, formulas, etc.  
 Cf. QC871.4, Observers' manuals  
 Cf. QC873, Computation tables
- 865 Addresses, essays, lectures
- 866 Special aspects of the subject as a whole
- 866.5.A-Z Special topics, A-Z
- 866.5.C65 Communication systems
- 866.5.I5 International cooperation  
 Cf. QC875.2.A+, International projects, programs, etc.
- 866.5.P4 Photography (General)
- Study and teaching. Research
- 869 General works

- Meteorology. Climatology  
 Study and teaching. Research -- Continued
- 869.15 Outlines, syllabi
  - 869.2 Programmed instruction
  - 869.3 Problems, exercises, examinations
  - 869.4.A-Z By region or country, A-Z
  - 869.5 Meteorology as a profession. Vocational guidance
  - 870 Miscellany and curiosa
  - Technique. Instructions for observers
  - 871 Methods of observation
  - 871.2 Observation forms, blanks, etc.
  - 871.4 Observers' manuals
  - 872 Telegraphic cipher codes for meteorological data
  - 873 Computation tables (General)
  - Synoptic meteorology. Computation and analysis
  - 874 General works
  - 874.3 Data processing
  - 874.5 Statistical methods
  - 874.8 Laboratory manuals
  - Meteorological stations and observatories. Weather services
  - Including marine meteorological services
  - 875.A2 General works
  - 875.A5-Z By region or country, A-Z
  - Apply table at QC808.A5-Z
  - 875.2.A-Z Individual international projects, programs, etc.
  - By name, A-Z
  - Meteorological instruments
  - For instruments of special fields, see the field,  
 e.g., for Rain gauges, see QC926
  - 875.5 Periodicals, societies, congresses, serial collections, yearbooks
  - 875.7 History
  - 876 General works, treatises, and textbooks
  - 876.5 Juvenile works
  - 876.6 Addresses, essays, lectures
  - Museums. Exhibitions
  - 876.7.A1 General works
  - 876.7.A2-Z By region or country, A-Z
  - Apply table at QC60.A2-Z
  - 877 Weather signals, storm warnings, etc.
  - 877.5 Weather broadcasting
  - Including radio and television weathercasting
  - 878 Construction of weather maps, charts, etc.
  - Aeronomy. Upper atmosphere
  - 878.5 Periodicals, societies, congresses, serial collections, yearbooks
  - 878.6 Collected works (nonserial)
  - 879 General works, treatises, and textbooks
  - 879.15 Juvenile works
  - 879.2 Addresses, essays, lectures
  - Study and teaching. Research
  - 879.23 General works

- Meteorology. Climatology  
 Aeronomy. Upper atmosphere  
 Study and teaching. Research -- Continued  
 879.232.A-Z By region or country, A-Z  
 879.25 Instruments and apparatus  
 Aeronautics in meteorology  
 Including sounding balloons, kites, etc.  
 Cf. TL556+, Meteorology in aeronautics  
 879.3 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 879.35 General works, treatises, and textbooks  
 879.36 Addresses, essays, lectures  
 Astronautics in meteorology  
 Including weather satellites, rockets, etc.  
 879.4 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 879.5 General works, treatises, and textbooks  
 879.53 Juvenile works  
 879.54 Addresses, essays, lectures  
 879.55.A-Z Special topics, A-Z  
 879.55.P4 Photography  
 Including automatic picture receiving and  
 transmission, etc.  
 Stations, networks, and programs  
 879.56 General works  
 879.562.A2-Z By region or country, A-Z  
*Under each country:*  
 .x *General works*  
 .x2A-.x2Z *Individual stations, networks, and  
 programs. By name, A-Z*  
 879.57 Handbooks, tables, formulas, etc.  
 Observations. Data summaries  
 879.59.A1 General works, treatises, and textbooks  
 879.59.A3-Z By region or country, A-Z  
 Atmospheric chemistry  
 879.6 General works  
 Atmospheric ozone (General)  
 Including ozone layer depletion  
 879.7 General works  
 Observations. Data summaries  
 879.72 General works, treatises, and textbooks  
 879.73.A-Z By region or country, A-Z  
 879.8 Atmospheric carbon dioxide  
 879.85 Atmospheric methane  
 Dynamic meteorology  
 Including mechanics and thermodynamics of the  
 atmosphere (combined)  
 Cf. QC930.5+, Wind  
 880 General works  
 880.2 Addresses, essays, lectures  
 880.4.A-Z Special topics, A-Z  
 880.4.A3 Adiabatic processes

Meteorology. Climatology

Dynamic meteorology

Special topics, A-Z -- Continued

- 880.4.A5 Air masses  
Cf. QC981.8.A5, Climatology
- 880.4.A8 Atmospheric circulation
- 880.4.B35 Baroclinicity
- 880.4.B55 Blocking
- 880.4.B65 Boundary layer
- Clear air turbulence, see QC880.4.T8
- 880.4.C64 Convection
- 880.4.C65 Coriolis force
- 880.4.D44 Diffusion
- 880.4.D5 Divergence. Convergence
- Eddy flux, see QC880.4.T8
- 880.4.E7 Equations of motion
- 880.4.F7 Fronts. Frontogenesis
- 880.4.L68 Low pressure systems
- 880.4.M52 Microbursts
- 880.4.P6 Power spectra
- 880.4.R6 Rossby waves
- 880.4.S56 Singularities
- 880.4.S65 Squalls. Squall lines
- 880.4.T5 Thermodynamics
- 880.4.T7 Transport phenomena
- 880.4.T8 Turbulence  
Including clear air turbulence and eddy flux
- 880.4.V6 Vorticity
- 880.4.W3 Waves

Atmospheric shells (General)

Including composition of the atmosphere

- 881 General works
- 881.2.A-Z Specific shells, A-Z
- 881.2.C4 Chemosphere
- 881.2.D2 D region
- 881.2.E2 E region
- 881.2.E9 Exosphere
- 881.2.F2 F region
- 881.2.H43 Heliosphere
- 881.2.H48 Heterosphere
- 881.2.H6 Homosphere
- 881.2.I6 Ionosphere
- Magnetosphere. Magnetopause, see QC809.M35
- 881.2.M3 Mesosphere. Mesopause
- 881.2.M53 Middle atmosphere
- 881.2.N4 Neutrosphere
- 881.2.O9 Ozonosphere. Ozone layer
- 881.2.S8 Stratosphere. Stratopause
- 881.2.T4 Thermosphere
- 881.2.T7 Triptosphere. Triptopause
- 881.2.T75 Troposphere. Tropopause

- Meteorology. Climatology -- Continued
- Atmospheric pollutants
    - Cf. QC929.D9, Dust (Aqueous vapor)
    - Cf. TD881+, Air pollution
  - 882 General works
  - 882.4 Aerosols
    - Periodicals, societies, congresses, serial collections
  - 882.42 General works, treatises, and textbooks
  - 882.46 Technique
  - 882.5 Dust
    - Cf. TD884.5, Air pollution
  - 882.6 Smoke plumes
    - Cf. TD884, Air pollution
  - Cosmic relations. Influence on sun and moon, etc.
  - 883 General works
  - 883.2.A-Z Special topics, A-Z
    - 883.2.A8 Atmospheric tides
    - 883.2.C5 Climatic periodicity
    - 883.2.S6 Solar activity. Solar climate
  - Mesometeorology
  - 883.4 Periodicals, societies, congresses, serial collections, yearbooks
  - 883.42 Collected works (nonserial)
  - 883.5 General works, treatises, and textbooks
  - 883.52 Addresses, essays, lectures
  - Observations. Data summaries
    - 883.54 General works, treatises, and textbooks
    - 883.56.A-Z By region or country, A-Z
  - Micrometeorology
  - 883.7 Periodicals, societies, congresses, serial collections, yearbooks
  - 883.72 Collected works (nonserial)
  - 883.8 General works, treatises, and textbooks
  - 883.82 Addresses, essays, lectures
  - Observations. Data summaries
    - 883.84 General works, treatises, and textbooks
    - 883.86.A-Z By region or country, A-Z
  - Paleoclimatology
    - Cf. QE697+, Geology
  - 884 General works
  - 884.2.A-Z Special topics, A-Z
    - 884.2.C5 Climatic variations
    - 884.2.D4 Dendroclimatology
      - Cf. QK477.2.A6, Annual rings
  - Atmospheric pressure
  - 885 General works, treatises, and textbooks
  - 885.2 Charts, diagrams, maps, etc.
  - Observations. Data summaries
    - 885.4 General works
    - 885.6.A-Z By region or country, A-Z
  - Mercury barometers and barographs
  - 886 General works

- Meteorology. Climatology  
 Atmospheric pressure  
 Mercury barometers and barographs -- Continued  
 887 Tables for reductions  
 889 Distribution, isobars, etc.  
 891 Variations and oscillations  
 895 Barometric hypsometry  
 896 Aneroid barometers and barographs  
 Temperature and radiation  
 Atmospheric temperature  
 Cf. TL557.A8, Aeronautical meteorology  
 Observations  
 Including distribution, isotherms  
 901.A1 General works, treatises, and textbooks  
 901.A3-Z By region or country, A-Z  
 902 Instruments and apparatus  
 Variations  
 Including global temperature changes, etc.  
 Cf. QC981.8.G56, Global warming  
 903 General works, treatises, and textbooks  
 903.2.A-Z By region or country, A-Z  
 905 Winter temperatures  
 906 Summer temperatures  
 (907) Temperature of the earth  
 see QE509  
 (909) Temperature of the sea, see GC160 +  
 Temperature of rivers, lakes, and springs  
 see GB651 +  
 Solar radiation. Sunshine  
 910.2 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 910.5 Collected works (nonserial)  
 911 General works, treatises, and textbooks  
 911.2 Juvenile works  
 911.3 Addresses, essays, lectures  
 911.6 Handbooks, tables, formulas, etc.  
 Observations. Data summaries  
 911.8 General works, treatises, and textbooks  
 911.82.A-Z By region or country, A-Z  
 912 Instruments and apparatus  
 Including actinometers, pyrhelimeters, sunshine  
 recorders, etc.  
 912.2.A-Z Special topics, A-Z  
 912.2.S64 Solar constant  
 912.3 Atmospheric radiation  
 Including greenhouse effect  
 912.5 Albedo  
 912.55 Global radiation  
 Atmospheric radioactivity  
 913 General works  
 913.2.A-Z Special topics, A-Z

- Meteorology. Climatology
  - Temperature and radiation
  - Atmospheric radioactivity
    - Special topics, A-Z -- Continued
- 913.2.A8 Atomic energy
  - Including radioactive fallout
  - Cf. TD887.R3, Radioactive pollution
- 913.2.R3 Radon
- Aqueous vapor
- Humidity. Hygrometry
  - 915 General works
  - Evaporation and evapotranspiration
  - 915.5 General works
  - Observations. Data summaries
  - 915.6 General works
  - 915.7.A-Z By region or country, A-Z
  - 916 Instruments and apparatus
    - Including hydrometers, psychrometers, etc.
  - 917 Handbooks, tables, formulas, etc.
  - 920 Forms of water (General)
  - Clouds
    - Cf. TL557.C6, Aeronautical meteorology
    - Periodicals, societies, congresses, serial collections, yearbooks
    - 920.7
    - 920.8 Collected works (nonserial)
    - 921 General works, treatises, and textbooks
    - 921.3 Pictorial works and atlases
    - 921.35 Juvenile works
    - 921.37 Addresses, essays, lectures
    - Observations. Data summaries
    - 921.375 General works, treatises, and textbooks
    - 921.377.A-Z By region or country, A-Z
    - Cloud forms and classification. Formation
    - 921.4 General works
    - 921.43.A-Z Special forms, A-Z
      - 921.43.C57 Cirrus
      - 921.43.C8 Cumulus
      - 921.43.N3 Nacreous (Mother-of-pearl)
      - Noctilucent, see QC976.N6
      - 921.43.S8 Stratus
    - Cloud physics
      - 921.48 Periodicals, societies, congresses, serial collections, yearbooks
      - General works, treatises, and textbooks
      - 921.5 Addresses, essays, lectures
      - 921.55
      - 921.6.A-Z Special topics, A-Z
      - 921.6.C6 Condensation nuclei
        - Including cloud droplets, ice crystals, etc.
      - 921.6.C65 Convection
      - 921.6.D95 Dynamics
      - 921.6.E4 Electrification
      - 921.6.T4 Thermodynamics of clouds
    - Observations of altitude, motion, etc.

## Meteorology. Climatology

## Aqueous vapor

## Clouds

Observations of altitude,  
motion, etc. -- Continued

922 General works, treatises, and textbooks

923 Instruments and apparatus

Including ceilometer

924.A-Z By region or country, A-Z

## Rain and rainfall

Cf. BV283.F3, Prayers for rain

Cf. QE581, Erosion

Cf. S622+, Soil conservation

Cf. SD390.7.R34, Forest meteorology

Cf. TD418, Rainwater (Water supply)

924.5 Periodicals, societies, congresses, serial  
collections, yearbooks

924.6 Collected works (nonserial)

924.7 Juvenile works

925 General works, treatises, and textbooks

Observations. By region or country

North America, United States and Canada

North America (General)

Canada

925.1.C2 General works

925.1.C3A-Z By region, province, etc., A-Z

United States

925.1.U2-U799 General works

925.1.U8A-Z By region or state, A-Z

Mexico, Central America, and West Indies

925.2.A1 General works

925.2.A3-Z By country, island, or region, A-Z

*Under each country or island:*

.x General works

.x2A-.x2Z Local, A-Z

## South America

925.3.A1 General works

925.3.A3-Z By country, island, or region, A-Z

Apply table at QC925.2.A3-Z

## Europe

925.4.A1 General works

925.4.A3-Z By country, island, or region, A-Z

Apply table at QC925.2.A3-Z

## Asia

925.5.A1 General works

925.5.A3-Z By country, island, or region, A-Z

Apply table at QC925.2.A3-Z

## Africa

925.6.A1 General works

925.6.A3-Z By country, island, or region, A-Z

Apply table at QC925.2.A3-Z

## Atlantic Ocean islands

925.65.A1 General works



- Meteorology. Climatology  
 Aqueous vapor  
 Rain and rainfall  
 Observations. By region or country  
 Atlantic Ocean islands -- Continued  
 925.65.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 Australia  
 925.7 General works  
 925.71.A-Z Local, A-Z  
 New Zealand  
 925.72 General works  
 925.73.A-Z Local, A-Z  
 Pacific Ocean islands  
 925.8.A1 General works  
 925.8.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 925.82 Tropics  
 925.9 Arctic regions  
 925.95 Antarctica  
 926 Instruments and apparatus  
 Including rain gauges  
 926.2 Data processing  
 Snow. Ice. Blizzards  
 Cf. GB641+, Frozen ground  
 Cf. GB2400+, Ice on the ground  
 Cf. GB2600+, Snow on the ground  
 926.3 Periodicals, societies, congresses, serial  
 publications  
 926.32 General works, treatises, and advanced textbooks  
 926.36 Pictorial works  
 926.37 Juvenile works  
 By region or country  
 United States  
 926.43 General works  
 926.44.A-Z By region or state, A-Z  
*Under each state:*  
 .x General works  
 .x2A-.x2Z Local, A-Z  
 926.45.A-Z Other regions or countries, A-Z  
 Apply table at QC89.A-Z  
 Acid precipitation. Acid rain  
 Cf. TD195.4+, Environmental pollutants  
 926.5 Periodicals, societies, congresses, serial  
 publications  
 926.52 General works, treatises, and advanced textbooks  
 By region or country  
 United States  
 926.55 General works  
 926.56.A-Z By region or state, A-Z  
 Apply table at QC926.44.A-Z  
 926.57.A-Z Other regions or countries, A-Z  
 Apply table at QC89.A-Z

- Meteorology. Climatology  
 Aqueous vapor -- Continued  
 Weather and cloud modification  
   Including weather control  
   Cf. QC921.48+, Cloud physics
- 926.6 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 928 General works, treatises, and textbooks
- 928.4 Juvenile works
- 928.6 Rainmaking. Cloud seeding  
 By region or country  
   United States  
     General works  
     By region or state, A-Z  
     Other regions or countries, A-Z
- 928.7  
 928.72.A-Z  
 928.74.A-Z  
 929.A-Z Other topics, A-Z  
   Including other forms of precipitation
- 929.A8 Avalanches
- 929.D5 Blizzards, see QC926.3+  
 (929.D8) Dew formation  
 Droughts  
   see QC929.2-28
- 929.D9 Dust influences
- 929.F7 Fog  
   Cf. TL557.F6, Aeronautical meteorology
- 929.F8 Forest influences  
 Frost, see QC929.H6
- 929.G4 Glaze
- 929.H15 Hail
- 929.H6 Hoarfrost  
 Ice, see QC926.3+  
 Rain shadows
- 929.R17 Rain without clouds
- 929.R2 Rainmaking, see QC928.6
- 929.S5 Showers of miscellaneous matter
- 929.S6 Smoke influences  
 (929.S7) Snow. Ice. Blizzards  
   see QC926.3-45
- Droughts
- 929.2 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 929.24 General works, treatises, and advanced textbooks
- 929.25 Juvenile works  
 By region or country  
   United States  
     General works  
     By region or state, A-Z  
       Apply table at QC926.44.A-Z
- 929.26  
 929.27.A-Z  
 929.28.A-Z Other regions or countries, A-Z  
   Apply table at QC89.A-Z

Meteorology. Climatology -- Continued

Wind

Cf. QC880+, Dynamic meteorology  
 Cf. TA654.5, Wind loads on structures  
 Cf. TL557.A5, Aeronautical meteorology  
 Cf. VK543+, Sailing

- 930.5 Periodicals, societies, congresses, serial collections, yearbooks
- 930.6 Collected works (nonserial)
- 930.7 Dictionaries and encyclopedias
- 931 General works, treatises, and textbooks
- 931.4 Juvenile works
- 931.6 Addresses, essays, lectures
- 931.8 Charts, diagrams, maps, etc.
- 932 Instruments and apparatus  
 Including anemometers
- 932.5 Handbooks, tables, formulas, etc.
- 933 Direction and velocity
- 934 Wind relation to atmospheric pressure
- 935 Upper currents. Jet stream
- 939.A-Z Constant, local, and periodic winds, A-Z
- 939.B67 Bora
- 939.F6 Föhn, Chinook, etc.
- 939.G73 Gregale
- 939.L37 Land and sea breezes
- 939.M7 Monsoons
- 939.M8 Mountain and valley winds  
 Including Santa Ana
- 939.N8 Northers
- 939.T7 Sea and land breezes, see QC939.L37  
 Trade winds
- Observations
- 940.A1 General works, treatises, and textbooks
- 940.A2-Z By region or country, A-Z  
 e.g.  
 North Atlantic Ocean
- 940.A8 Storms. Cyclones  
 Cf. GC225+, Storm surges  
 Cf. QC926.3+, Snow. Ice. Blizzards  
 Cf. QC968+, Thunderstorms  
 Cf. TL557.S7, Aeronautical meteorology
- 940.6 Periodicals, societies, congresses, serial collections, yearbooks
- 941 General works, treatises, and textbooks
- 941.3 Juvenile works
- 941.8 Miscellany and curiosa
- Theoretical aspects  
 Including dynamic meteorological aspects
- 942 General works
- 943 Application to navigation
- 943.5.A-Z By region or country, A-Z
- 944 Hurricanes and other cyclonic storms  
 General works, treatises, and textbooks

- Meteorology. Climatology  
 Wind  
 Storms. Cyclones  
 Hurricanes and other  
 cyclonic storms -- Continued  
 944.2 Juvenile works  
 By geographical location  
 945 Atlantic Ocean and West Indies  
 Including tropical cyclones, northeaster  
 storms  
 947 India, Pakistan, and the Indian Ocean  
 948 China Seas and Pacific Ocean. Far East  
 Including typhoons  
 951 Instruments and apparatus  
 Including barocyclonometer  
 Tornadoes  
 955 General works  
 955.2 Juvenile works  
 955.5.A-Z By region or country, A-Z  
 957 Waterspouts  
 Dust storms. Dust devils. Sandstorms  
 958 General works  
 959.A-Z By region or country, A-Z  
 Electrical phenomena in the atmosphere  
 Cf. QC801+, Geophysics. Cosmic physics  
 Cf. QC972.6+, Radio meteorology  
 960.5 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 961 General works, treatises, and textbooks  
 961.2 Addresses, essays, lectures  
 961.5 Technique. Instructions for observers  
 962 Instruments and apparatus  
 963 Observations of potential variation  
 Lightning (General)  
 Cf. GR630, Folklore  
 Cf. TH9057+, Protection of buildings from  
 lightning  
 966 General works  
 966.5 Juvenile works  
 966.7.A-Z Special topics, A-Z  
 Arresters, see TK3248  
 966.7.A84 Atmospheric ionization  
 966.7.B3 Ball lightning  
 966.7.D5 Discharge. Flash  
 Thunderstorms (General)  
 968 General works  
 968.2 Juvenile works  
 969 Miscellaneous electrical phenomena  
 Auroras  
 Cf. QB524+, Solar activity  
 Cf. QC835, Magnetic disturbance  
 Cf. QC976.A3, Airglow

- Meteorology. Climatology  
 Auroras -- Continued
- 970 Periodicals, societies, congresses, serial collections, yearbooks
  - 971 General works, treatises, and textbooks
  - 971.3 Pictorial works and atlases
  - 971.4 Juvenile works
  - 971.5 Addresses, essays, lectures
  - Observations
    - 971.7.A1 General works, treatises, and textbooks
    - 971.7.A2-Z By region or country, A-Z
  - 972.A-Z Special topics, A-Z
    - 972.L8 Luminescence
    - 972.L85 Luminosity
    - 972.P4 Photography
    - 972.S6 Spectra
  - 972.5.A-Z Special types of aurora, A-Z
    - 972.5.A8 Australis
    - 972.5.B6 Borealis
    - Northern lights, see QC972.5.B6
    - Polaris, see QC972.5.B6
  - 972.5.R3 Radio auroras
- Radio meteorology. Microwave meteorology
- 972.6 Periodicals, societies, congresses, serial collections, yearbooks
  - 972.7 Collected works (nonserial)
  - 973 General works, treatises, and textbooks
  - 973.2 Addresses, essays, lectures
  - 973.3 Instruments and apparatus
  - 973.4.A-Z Special topics, A-Z
    - 973.4.A85 Atmospheric
      - 973.4.C4 Chorus. Dawn chorus
      - 973.4.I6 Ionospheric radio waves
        - Including absorption, propagation, etc.
      - 973.4.M33 Magnetospheric radio waves
      - Radio auroras, see QC972.5.R3
      - Radio noise
      - Radio refractivity
      - Sferics, see QC973.4.A85
    - 973.4.T76 Tropospheric radio waves
      - Including absorption, propagation, etc.
    - 973.4.V2 VLF emissions, propagation, etc.
    - 973.4.W5 Whistlers
  - 973.45 Radar meteorology
    - Periodicals, societies, congresses, serial collections, yearbooks
    - 973.5 General works, treatises, and textbooks
    - 973.6 Addresses, essays, lectures
    - Radar stations
      - 973.62.A1 General works
      - 973.62.A2-Z By region or country, A-Z
    - 973.7 Instruments and apparatus
      - Including rawinsondes

- Meteorology. Climatology  
     Radio meteorology. Microwave meteorology  
     Radar meteorology -- Continued  
 973.8.A-Z      Special topics, A-Z  
 973.8.E3      Echoes  
 973.8.R4      Refraction  
 973.8.W4      Weather radar networks  
 Meteorological optics  
 974.5      Periodicals, societies, congresses, serial  
             collections, yearbooks  
 974.6      Collected works (nonserial)  
             General works, treatises, and textbooks  
 975      1801-1969  
 975.2      1970-  
 975.3      Juvenile literature  
 975.6      Addresses, essays, lectures  
 975.8      Handbooks, tables, formulas, etc.  
 Observations  
 975.9.A1      General works, treatises, and textbooks  
 975.9.A2-Z    By region or country, A-Z  
 976.A-Z      Special topics, A-Z  
 976.A3      Airglow  
 976.C6      Coloration of the sky  
 (976.C7)     Counter glow  
             see QB761  
             Gegenschein, see QB761  
 976.H15     Halos  
 976.L36     Laser beam propagation  
 976.M6     Mirages  
 976.N5     Night sky  
 976.N6     Noctilucent clouds  
 976.P7     Polarization  
 976.R15    Rain band spectrum  
 976.R2     Rainbows  
 976.R4     Atmospheric refraction  
 976.S3     Scattering  
 976.T6     Transmission of the atmosphere  
 976.T7     Transparency of the atmosphere  
 976.T8     Turbidity  
 976.T9     Twilight phenomena  
 976.U4     Ultraviolet rays  
 976.V5     Visibility  
             Cf. TL557.V5, Aeronautical meteorology

- Meteorology. Climatology -- Continued  
 Climatology and weather  
 Class here works on the composite generalization of weather conditions of specific geographic areas during a specific period of time with reference to average conditions and their variability  
 Cf. BF353, Psychological aspects  
 Cf. GF71, Human ecology  
 Cf. NA2541, Architecture and climate  
 Cf. QC884 +, Paleoclimatology  
 Cf. QH543 +, Bioclimatology  
 Cf. RA791 +, Medical climatology  
 Cf. S600 +, Agricultural climatology  
 Cf. TA198, Industry and weather  
 Cf. TH7015, Heating and ventilation  
 Cf. TL556 +, Aviation climatology
- 980 Periodicals, societies, congresses, serial collections, yearbooks
- 980.15 Collected works (nonserial)
- 980.4 Dictionaries and encyclopedias, see QC854  
 Classification of climate  
 Including indexes  
 Biography, see QC858.A2 +
- 981 General works, treatises, and textbooks
- 981.2 Popular works
- 981.3 Juvenile works
- 981.4 Addresses, essays, lectures
- 981.45 Special aspects of the subject as a whole
- 981.5 Study and teaching. Research
- 981.6 Instruments and apparatus  
 Including frigorimeters
- 981.7.A-Z Special types of climatology, A-Z
- 981.7.C7 Cryptoclimatology
- 981.7.D94 Dynamic climatology
- 981.7.M3 Macroclimatology
- 981.7.M4 Mesoclimatology
- 981.7.M5 Microclimatology
- 981.7.S8 Paleoclimatology, see QC884 +
- 981.7.T64 Synoptic climatology
- 981.7.U7 Topoclimatology
- 981.8.A-Z Urban climatology
- 981.8.A5 Special topics, A-Z  
 Air masses in weather situations  
 Including cold and heat waves, etc.
- 981.8.C5 Climatic changes  
 Cf. QC884.2.C5, Paleoclimatology
- 981.8.C53 Climatic extremes
- 981.8.C65 Continentality  
 Droughts, see QC929.2 +  
 Forest influences, see SD425  
 Glaciers and climate, see QC981.8.I23
- 981.8.G56 Global warming
- 981.8.I23 Ice sheets and climate. Glaciers and climate

- Meteorology. Climatology  
 Climatology and weather  
 Special topics, A-Z -- Continued  
 981.8.S9 Sultriness  
 981.8.V65 Volcano effect on weather  
 981.8.Z6 Zones of climate  
 Geographic divisions  
 Including observations, weather reports, charts,  
 etc., of special regions  
 International observations  
 982 General works  
 982.5.A-Z International areas not wholly within the  
 divisions below. By name, A-Z  
 982.5.G7 Great Britain's colonies  
 982.5.G75 Great Lakes Region  
 982.5.N67 Northern Hemisphere  
 982.8 North America (General)  
 United States  
 983 General works  
 984.A-Z By region or state, A-Z  
 Apply table at QC926.44.A-Z  
 Canada  
 985 General works  
 985.5.A-Z By region or province, A-Z  
 Apply table at QC926.44.A-Z  
 Mexico and Central America  
 986.A1 General works  
 986.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 West Indies  
 987.A1 General works  
 987.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 South America  
 988.A1 General works  
 988.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 Europe  
 989.A1 General works  
 989.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 Asia  
 990.A1 General works  
 990.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 Africa  
 991.A1 General works  
 991.A3-Z By country, island, or region, A-Z  
 Apply table at QC925.2.A3-Z  
 Australia  
 992.A1 General works  
 992.A3-Z Local, A-Z  
 New Zealand



- Meteorology. Climatology  
 Climatology and weather  
 Geographic divisions  
 New Zealand -- Continued
- 992.5.A1 General works  
 992.5.A3-Z Local, A-Z  
 993.A-Z Pacific and other oceanic islands. By island or group of islands, A-Z
- 993.5 Tropics (General). Tropical climatology and meteorology  
 993.6 Mountains (General). Mountain climatology and meteorology  
 993.7 Arid regions. Deserts (General). Arid zone climatology  
 993.8 Mediterranean climate (General)  
 Class here works on Mediterranean climate regions in general. For works on Mediterranean climate in specific geographic regions, see QC983-QC993; QC994.3
- Ocean areas. Maritime meteorology  
 Cf. GC190+, Ocean-atmosphere interaction  
 Cf. VK570, Ship routing
- 993.83 Periodicals, societies, congresses, serial collections, yearbooks  
 993.84 Observers' manuals. Handbooks, tables, formulas, etc.  
 Weather services, see QC875.A2+
- 994 General works, treatises, and textbooks  
 By region
- 994.1 Atlantic Ocean (General)  
 994.2 Atlantic, North  
 994.3 Mediterranean Sea  
 994.4 Atlantic, South  
 994.5 Indian Ocean  
 994.55 Pacific Ocean (General)  
 994.6 Pacific, North  
 994.7 Pacific, South  
 Polar climatology and meteorology  
 994.75 General works  
 994.8 Arctic  
 994.9 Antarctic
- Weather forecasting  
 Including analyses and forecasts  
 Cf. QC875.A2+, Weather services  
 Cf. QC877.5, Weather broadcasting
- 994.95 Periodicals, societies, congresses, serial collections, yearbooks  
 995 General works, treatises, and textbooks  
 995.3 Pictorial works and atlases  
 995.4 Popular works  
 995.43 Juvenile works  
 995.45 Addresses, essays, lectures  
 995.46 Study and teaching. Research

- Meteorology. Climatology
- Climatology and weather
- Weather forecasting -- Continued
- Technique (General)
  - Including graphical technique
- 995.48 General works
- 995.485 Observers' manuals
- Types of weather forecasting
- Hydrodynamic
  - 995.5 General works
- 996 Numerical
- 996.5 Statistical
- 997 Long-range
- 997.5 Short-range
- 997.75 Nowcasting
- 998 Weather lore
  - Cf. GR635, Weather lore (as folklore)
- 999 Weather almanacs and miscellany

## Chemistry

For applications of chemistry in special fields, see the field, e.g. RS402+, Medical and pharmaceutical chemistry; S583+, Agricultural chemistry

For chemical technology, including chemical engineering, see TP1+

- 1 Periodicals, societies, congresses, serial collections, yearbooks
- Museums
- 2.A1 General works
- 2.A2-Z By region or country, A-Z  
*Under each country:*  
*.x General works*  
*.x2A-.x2Z Special. By city, A-Z*
- 3 Collected works (nonserial)
- 4 Encyclopedias
- 5 Dictionaries
- 6 Philosophy
- 7 Nomenclature, terminology, notation, abbreviations  
 Communication of chemical information
- 8 General works
- 8.3 Information services
- 8.5 Chemical literature
- 9 Abstracting and indexing
- 9.15 Language. Authorship
- 9.2 Translating. Translating services
- History
- 11 General works
- 13 History of alchemy
- 14 Early works through 1800
- 15 1801-
- 18.A-Z By region or country, A-Z
- Biography of chemists  
 Cf. QD24.A2+, Alchemists  
 Cf. QD903.5+, Crystallographers
- 21 Collective
- 22.A-Z Individual, A-Z  
 e.g.  
 Curie, Marie and Pierre
- 22.C8 Directories
- 23 Alchemy  
 Cf. BR115.A57, Alchemy and Christianity
- 23.3 Periodicals, societies, congresses, serial collections, yearbooks
- 23.4 Collected works (nonserial)
- 23.5 Dictionaries and encyclopedias  
 History, see QD13  
 Biography
- 24.A2 Collective
- 24.A3-Z Individual, A-Z
- 25 Early works through 1800
- 26 General works, treatises, and textbooks
- 26.5.A-Z Special topics, A-Z

- Alchemy  
 Special topics, A-Z -- Continued
- 26.5.A4 Alkahest. Universal solvent  
 26.5.E4 Elixer of life  
 Philosopher's stone, see QD25
- 27 Early works through 1761  
 General works, treatises, and advanced textbooks
- 28 1761-1860  
 31 1861-1969  
 31.2 1970-
- 33 Elementary textbooks  
 35 Juvenile works  
 37 Popular works  
 38 Recreations, home experiments, etc.  
 39 Addresses, essays, lectures
- 39.2 Special aspects of the subject as a whole  
 39.3.A-Z Special topics, A-Z
- 39.3.C6 Computer programs  
 39.3.E4 Electromechanical analogies  
 39.3.E46 Electronic data processing  
 39.3.F33 Factor analysis  
 39.3.G73 Graph theory  
 39.3.M3 Mathematics  
 39.3.P45 Phlogiston  
 39.3.S55 Simulated annealing  
 39.3.S7 Statistical methods
- 39.5 Chemistry as a profession. Vocational guidance  
 Study and teaching. Research
- 40 General works  
 41 Outlines, syllabi  
 42 Problems, exercises, examinations  
 For programmed textbooks, see QD28+
- 43 Experiments  
 Cf. QD38, Home experiments
- 45 Laboratory manuals  
 By region or country  
 United States
- 47 General works  
 47.5.A-Z By region or state, A-Z  
 Under each state:  
 .x General works  
 .x2A-.x2Z Local, A-Z  
 .x3A-.x3Z Special schools. By name, A-Z
- 49.A-Z Other regions or countries, A-Z  
 Under each country:  
 .x General works  
 .x2A-.x2Z Local, A-Z  
 .x3A-.x3Z Special schools. By name, A-Z
- 51 Laboratories  
 General works

- 51.5.A-Z      Laboratories -- Continued  
                     By region or country, A-Z  
                             Under each country:  
                             .x                      General works  
                             .x2A-.x2Z        Individual laboratories. By name, A-Z
- 53                Instruments and apparatus  
 54.A-Z            General works  
 54.A3             Special, A-Z  
 54.C4             Absorption apparatus  
 54.E8             Centrifuges  
 54.F85            Eudiometer  
 54.P5             Fume hoods  
 54.S8             Pipettes  
 54.T4             Sulphuric acid concentrator  
                     Thermostat
- 61                Techniques and operations  
 63.A-Z            General works  
                     Special, A-Z  
                             Cf. QD258+, Operations in organic chemistry
- 63.D5            Dissolution  
 63.D6            Distillation  
                     Electric furnace operations (Inorganic  
                                     chemistry), see QD157  
                     Electric furnace operations (Organic chemistry), see  
                                     QD277
- 63.E83            Exchange reactions  
 63.E88            Extraction  
 63.F5             Filtration  
 63.G5             Glass manipulation  
 63.H87            Hydration  
 63.H9             Hydrogenation  
 63.I55            Ion exchange  
 63.L3             Laser techniques  
 63.M3             Masking  
 63.N5             Nitration  
 63.O9             Oxidation  
 63.P4             Percolation  
 63.R4             Reduction  
 63.S4             Separation  
 63.V33            Vacuum techniques
- 63.5             Safety measures  
 64                Waste disposal  
 65                Handbooks, tables, formulas, etc.  
                     Catalogs, pricelists, etc, see TP202
- Analytical chemistry  
                             Cf. QE516.3, Analytical geochemistry  
                             For the analysis of organic compounds, see QD271+  
                             For the analysis of special elements and their  
                                     compounds, see QD181.A+
- 71                Periodicals, societies, congresses, serial  
                     collections, yearbooks
- 71.2             Collected works (nonserial)  
 71.5             Dictionaries and encyclopedias

## Analytical chemistry -- Continued

- History
  - 72 General works
  - 72.5.A-Z By region or country, A-Z
  - General works, treatises, and textbooks
  - 75 Through 1970
  - 75.2 1971-
  - 75.25 Addresses, essays, lectures
  - 75.3 Special aspects of the subject as a whole
  - 75.4.A-Z Special topics, A-Z
    - 75.4.A8 Automation
    - 75.4.C34 Calibration
    - 75.4.E4 Electronic data processing
    - 75.4.K54 Kinetics
    - 75.4.M36 Mathematics
    - 75.4.M4 Measurement
    - Preparation of samples, see QD75.4.S24
    - 75.4.Q34 Quality control
    - Sample introduction, see QD75.4.S24
    - 75.4.S24 Sample preparation. Sample introduction
    - 75.4.S25 Sampling
    - 75.4.S8 Statistical methods
  - Study and teaching. Research
    - 75.7 General works
    - 75.9 Problems, exercises, examinations
    - 76 Laboratory manuals
    - 77 Reagents, indicators, test papers, etc.
    - 78 Handbooks, tables, formulas, etc.
    - 79.A-Z Methods of analysis (Qualitative and quantitative), A-Z
      - Chemical microscopy, see QH221
      - Chromatographic analysis
        - 79.C4 General works
        - 79.C45 Gas chromatography
        - 79.C453 Ion exchange chromatography
        - 79.C4537 Ligand exchange chromatography
        - 79.C454 Liquid chromatography
        - 79.C46 Paper chromatography
        - 79.C75 Radiochromatography
        - 79.C8 Thin layer chromatography
      - 79.E4 Electron diffraction
      - 79.E44 Electrophoresis
      - 79.F4 Fluorimetry
      - 79.I5 Instrumental analysis
      - 79.M5 Microchemical analysis
      - Molecular emission cavity analysis, see QD79.P4
      - 79.O8 Oximetry
      - 79.P4 Phosphorimetry. Molecular emission cavity analysis
      - 79.P46 Photometry
      - Radiochemical analysis, see QD605 +
      - 79.S4 Sedimentation analysis
      - Spectrum analysis, see QD95 +
      - 79.T38 Thermal analysis
      - 79.T4 Thermogravimetry

## Analytical chemistry -- Continued

- Qualitative analysis
- 81 General works, treatises, and advanced textbooks
- 83 Elementary textbooks
- 84 Laboratory manuals
- 85 Tables, outlines, etc.
- 87 Blowpipe analysis
- Cf. QE367+, Determinative mineralogy
- Spectrum analysis (Qualitative and quantitative)
- Class here works on the applications of spectroscopy in general analytical chemistry and theoretical works intended primarily for chemists.
- Cf. CC79.S65, Spectrum analysis in archaeology
- For compilations of spectra of elements, groups of elements, organic and inorganic compounds, see QC462+
- For general works on the theory of spectroscopy and works intended primarily for physicists, see QC450+
- For works on the applications of spectroscopy in organic analytical chemistry, see QD272.S6
- 95 General works
- 95.5.A-Z Special topics, A-Z
- 95.5.D37 Data processing
- 95.5.S72 Statistical methods
- 96.A-Z Special method and types of spectra, A-Z
- 96.A2 Absorption spectra
- 96.A7 Arc spectra
- 96.A8 Atomic spectra
- 96.D48 Deuteron magnetic resonance spectroscopy
- 96.E4 Electron paramagnetic resonance spectroscopy
- 96.E44 Electron spectroscopy
- 96.E46 Emission spectroscopy
- 96.F5 Flame spectroscopy
- 96.F56 Fluorescence spectroscopy
- 96.F68 Fourier transform spectroscopy
- 96.I5 Infrared spectroscopy
- 96.I54 Ion cyclotron resonance spectroscopy
- Ion mobility spectroscopy, see QD96.P62
- 96.L3 Laser spectroscopy
- 96.L85 Luminescence spectroscopy
- 96.M3 Mass spectroscopy
- 96.M33 Matrix isolation spectroscopy
- 96.M5 Microwave spectroscopy
- 96.M6 Mössbauer spectroscopy
- 96.M65 Molecular spectra
- 96.N8 Nuclear magnetic resonance spectroscopy
- 96.N84 Nuclear quadrupole resonance spectroscopy
- 96.O6 Optoacoustic spectroscopy
- 96.P5 Photoelectron spectroscopy
- 96.P54 Photothermal spectroscopy

- Analytical chemistry
    - Qualitative analysis
      - Spectrum analysis (Qualitative and quantitative)
        - Special methods and
          - types of spectra, A-Z -- Continued
- 96.P62 Plasma spectroscopy
  - Including ion mobility spectroscopy
- 96.P7 Proton magnetic resonance spectroscopy
- 96.R3 Radiofrequency spectroscopy
- 96.R34 Raman spectroscopy
- 96.R4 Reflectance spectroscopy
- 96.R44 Relaxation spectroscopy
- 96.S43 Secondary ion mass spectroscopy
- 96.U4 Ultraviolet spectroscopy
- 96.V53 Vibrational spectra
- 96.X2 X-ray spectroscopy
- 98.A-Z Other special methods, A-Z
  - Chromatography
  - Electron microprobe
  - Kinetic analysis
  - Microchemical analysis
  - Spot tests
- Quantitative analysis
  - General works, treatises, and textbooks
    - Through 1970
    - 1971-
  - Volumetric analysis
  - Colorimetric analysis
  - Electrochemical analysis
    - General works
    - Special methods, A-Z
      - Conductometric analysis
      - Impedance spectroscopy
      - Polarography
      - Potentiometry
      - Voltammetry
  - Other special methods, A-Z
    - Chromatography
      - General works
      - Gas chromatography
      - Liquid chromatography
      - Thin layer chromatography
    - Electron diffraction
    - Electron microprobe. Electron probe microanalysis
    - Electrophoresis
    - Fluorimetry
    - Microchemical analysis. Microchemistry
    - Photometry
    - Radiometry. Radiation measurement
    - Spectrophotometry
    - Spectrum analysis, see QD95+
    - Thermal analysis
- 101
- 101.2
- 111
- 113
- 115
- 116.A-Z
- 116.C65
- 116.I57
- 116.P64
- 116.P68
- 116.V64
- 117.A-Z
- 117.C5-C52
- 117.C5
- 117.C515
- 117.C517
- 117.C52
- 117.E4
- 117.E42
- 117.E45
- 117.F5
- 117.M5
- 117.P5
- 117.R3
- 117.S64
- 117.T4



- 121 Analytical chemistry -- Continued  
     Gas analysis  
         Including air analysis  
         Cf. TP754, Analysis, tests, etc. in the gas industry  
     Technical analysis  
 130 Periodicals, societies, congresses, serial collections, yearbooks  
 131 General works, treatises, and textbooks  
     Metals  
 132 General works  
     Assaying, see TN550 +  
 133 Iron and steel alloys  
     Alloys (General). Nonferrous alloys  
 135 General works  
 137.A-Z Special metal alloys, A-Z  
     For the analysis of metallic elements, see QD181.A +  
 137.A6 Aluminum alloys  
 137.A8 Arsenic alloys  
 137.B3 Babbitt metal  
 137.C5 Chromium-iron-nickel alloys  
 137.C6 Copper alloys  
 137.F35 Ferrites (Magnetic materials)  
 137.F38 Ferroboron  
 137.F4 Ferrochromium  
 137.F44 Ferroniobium  
 137.F48 Ferrotungsten  
 137.G6 Gold alloys  
     Iron alloys (General), see QD133  
 137.M3 Magnesium alloys  
 137.N5 Nickel alloys  
 137.S5 Silver alloys  
     Steel alloys, see QD133  
 137.U73 Uranium alloys  
 137.Z5 Zinc alloys  
 139.A-Z Other special, A-Z  
     Air, see QD121  
     Air pollution, see TD890  
     Cement, see TP882.3  
 139.C53 Cigarette smoke  
     Clay, see TP811  
     Distilled beverages, see TP609  
 139.E4 Electrolytes  
     Fermentation industries, see TP511  
     Fats, oils, and waxes, see TP671  
     Food, see TX545  
     Gas, see QD121  
     Gas industry, see TP754  
 139.G5 Glass  
     Materials (General), see QD130 +  
     Oils, fats, and waxes, see TP671  
     Oils (Petroleum), see TP691

- Analytical chemistry  
 Technical analysis  
 Other special, A-Z -- Continued  
 Plastics, see TP1140  
 Polymers  
 Semiconductors  
 Sewage, see TD735  
 Silicon organic compounds  
 Textiles  
     see TS1449  
 Trace elements  
 Water, see QD142  
 Water supply, see TD380 +  
 Wine, see TP548.5.A5
- 139.P6  
 139.S44  
 139.S5  
 (139.T5)  
 139.T7  
 142  
 146  
 147  
 148  
 149  
 149.5  
 149.7.A-Z  
 150  
 151  
 151.2  
 151.5  
 152  
 152.3  
 152.5.A-Z  
 152.5.M38  
 153  
 154  
 155  
 155.5  
 156  
 157  
 161  
 162  
 163  
 165  
 167
- Water analysis  
 Cf. TD380 +, Water supply
- Inorganic chemistry  
 Cf. QD475, Physical inorganic chemistry  
 Cf. QE351 +, Mineralogy
- Periodicals, societies, congresses, serial  
 collections, yearbooks
- Collected works (nonserial)
- Dictionaries and encyclopedias
- Nomenclature, terminology, notation, abbreviations
- History  
 General works  
 By region or country, A-Z
- Early works through 1800
- General works, treatises, and advanced textbooks  
 1801-1969  
 1970-
- Elementary textbooks
- Addresses, essays, lectures
- Special aspects of the subject as a whole
- Special topics, A-Z  
 Mathematics
- Study and teaching. Research  
 General works  
 Problems, exercises, examinations  
 Laboratory manuals
- Handbooks, tables, formulas, etc.
- Inorganic synthesis
- Electric furnace operations  
 Cf. QD277, Electric furnace operations  
 (Organic)
- Nonmetals  
 General works  
 Gases  
 Chemistry of the air  
 Cf. TD881 +, Air pollution
- Halogens: Bromine, chlorine, fluorine, iodine
- Inorganic acids  
 Cf. QD477, General theory of acids and bases

- Inorganic chemistry
- Nonmetals -- Continued
- 169.A-Z Other, A-Z
- 169.C5 Chalcogenides
- Heavy water, see QD169.W3
- 169.W3 Water
- Cf. GB855+, Natural water chemistry
- Metals
- Cf. TN600+, Metallurgy
- 171 General works, treatises, and textbooks
- 172.A-Z By group, A-Z
- 172.A3 Actinide elements
- 172.A4 Alkali metals
- 172.A42 Alkaline earth metals
- 172.I7 Iron group
- 172.M4 Magnesium group
- 172.P8 Platinum group
- 172.R2 Rare earth metals
- 172.S6 Spinel group
- 172.S93 Superheavy elements
- Cf. QC796.2, Nuclear physics
- 172.T52 Titanium group
- 172.T6 Transition metals
- 172.T65 Transplutonium elements
- 172.T7 Transuranium elements
- 181.A-Z Special elements. By chemical symbol, A-Z  
(Table Q1)
- Class here works on the origin, properties, preparation, reactions, isotopes, and analytical chemistry of individual elements and their inorganic compounds.
- For the determination of atomic and molecular weights, see QD464.A +
- Salts
- 189 General works
- 191 Double salts
- 193 Complex salts
- 196 Inorganic polymers
- 197 Cyclic compounds
- Organic chemistry
- Cf. QD476, Physical organic chemistry
- Cf. QD478, Solids. Solid state chemistry  
(Inorganic and organic)
- 241 Periodicals, societies, congresses, serial collections
- 243 Yearbooks
- 245 Collected works (nonserial)
- 246 Dictionaries and encyclopedias
- History
- 248 General works
- 248.5.A-Z By region or country, A-Z
- General works, treatises, and advanced textbooks
- 251 Through 1970
- 251.2 1971-

- Organic chemistry -- Continued
- 253 Elementary textbooks  
Nomenclature, terminology, notation, abbreviations, see QD291
- 254 Classification
- 255 Addresses, essays, lectures
- 255.4 Special aspects of the subject as a whole
- 255.5.A-Z Special topics, A-Z
- 255.5.E4 Electronic data processing
- 255.5.M35 Mathematics
- 255.5.R33 Radiation effects
- Study and teaching. Research
- 256 General works
- 256.5 Outlines, syllabi
- 257 Problems, exercises, examinations
- 257.5 Experiments
- 257.7 Handbooks, tables, formulas, etc.
- Operations in organic chemistry
- 258 General works
- 261 Laboratory manuals
- 262 Organic synthesis
- Organic analysis
- Class here general works on the analysis of organic compounds
- For the analysis of specific organic compounds or groups of compounds, see QD301
- For works on the analysis of both organic and inorganic compounds, see QD71 +
- 271.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 271.A2-Z General works, treatises, and textbooks
- 271.4 Qualitative analysis
- Prefer QD272 for special methods in qualitative analysis
- 271.7 Quantitative analysis
- Prefer QD272 for special methods in quantitative analysis
- 272.A-Z Special methods of analysis (Qualitative and quantitative), A-Z
- Chromatography
- 272.C4 General works
- 272.C44 Gas chromatography
- 272.C444 Gel permeation chromatography
- 272.C447 Liquid chromatography
- 272.C45 Thin layer chromatography
- 272.C6 Colorimetric analysis
- 272.E4 Electrochemical analysis
- 272.E43 Electrophoresis
- 272.E5 Enzymatic analysis
- 272.M5 Microchemical analysis
- 272.P5 Photometry
- 272.S57 Spectrophotometry

- Organic chemistry
  - Operations in organic chemistry
    - Organic analysis
      - Special methods of analysis
        - (Qualitative and quantitative),
          - A-Z -- Continued
- 272.S6
  - Spectrum analysis
    - Works on the application of spectroscopy in
      - general or inorganic analytical chemistry
        - are classed in QD95.
    - For compilations of spectra, see QC462+
- 272.T45
  - Thermal analysis
- 272.V6
  - Volumetric analysis
- 273
  - Electrochemistry of organic compounds
    - Cf. QP517.B53, Bioelectrochemistry
- 275
  - Organic photochemistry
    - Cf. QP517.P45, Photobiochemistry
- 277
  - Electric furnace operations
- 281.A-Z
  - Other special, A-Z
    - Acylation
    - Alkylation
    - Amination
    - Ammonolysis
    - Bromination
    - Catalysis
    - Chlorination
    - Condensation
    - Cyclization, see QD281.R5
    - Dehydrogenation
    - Dialysis
    - Distillation
    - Elimination reactions
    - Flotation
    - Fluorination
    - Fragmentation reactions
    - Halogenation
    - Hydroboration
    - Hydrogenation
    - Hydrolysis
    - Hydrosilylation
    - Hydroxylation
    - Isotopic exchange reactions
    - Methylation
    - Nitration
    - Oxidation
    - Ozonolysis. Ozonization
    - Phosphorylation
    - Polymerization. Telomerization
    - Pyrolysis
    - Quinoidation
    - Rearrangement reactions. Rearrangements
    - Reduction
- 281.D4
- 281.D47
- 281.D5
- 281.E4
- 281.F5
- 281.F55
- 281.F7
- 281.H3
- 281.H78
- 281.H8
- 281.H83
- 281.H84
- 281.H85
- 281.I7
- 281.M48
- 281.N5
- 281.O9
- 281.O95
- 281.P46
- 281.P6
- 281.P9
- 281.Q5
- 281.R35
- 281.R4

- Organic chemistry  
 Operations in organic chemistry  
 Other special, A-Z -- Continued
- 281.R5 Ring formation  
 Including ring breaking, enlargement, and closure, and ring-opening polymerization
- 281.S5 Silylation  
 281.S6 Solvolysis  
 281.S67 Substitution reactions  
 281.S7 Sulphonation  
 Telomerization, see QD281.P6
- 291 Nomenclature, terminology, notation, abbreviations
- 300 Aliphatic compounds  
 Periodicals, societies, congresses, serial collections, yearbooks
- 301 General works, treatises, and textbooks  
 302 Special aspects of the subject as a whole  
 305.A-Z Special groups, A-Z  
 Including works on both aliphatic and aromatic aspects of functional groups  
 For works on special groups of aromatic compounds only, see QD341.A +
- 305.A2 Acids and esters  
 305.A4 Alcohols  
 305.A6 Aldehydes and other carbonyl compounds  
 For ketones, see QD305.K2
- 305.A7 Amides and hydrazides  
 Cf. QD315, Urea  
 Amino acids, see QD431 +  
 Amino compounds
- 305.A8 Azo, hydrazo, and diazo compounds  
 305.A9 Carbanions and carbonium ions, free radicals  
 305.C3 Ethers and oxides  
 305.E7 Fats and fatty oils  
 Cf. QP751+, Animal biochemistry  
 Cf. TP669+, Chemical technology  
 Free radicals, see QD305.C3  
 Glycols, see QD305.A4
- 305.H15 Halogen compounds  
 Hydrocarbons
- 305.H5 General works  
 305.H6 Alkanes (Paraffins)  
 305.H7 Alkenes (Olefins)  
 305.H8 Alkynes (Acetylene, etc.)  
 305.H9 Alicyclic compounds (Non-aromatic compounds with ring structure)
- 305.I6 Imides, imidoesters, etc.  
 305.K2 Ketones, ketenes, and oximes  
 305.N7 Nitriles and cyanogen derivatives  
 305.N8 Nitro and nitroso compounds  
 305.N84 Nitrogen derivatives (General)  
 305.P46 Phosphorus derivatives (General)  
 Radicals, see QD305.C3

- Organic chemistry
  - Aliphatic compounds
    - Special groups, A-Z -- Continued
    - 305.S3 Sulphur derivatives (General)
    - 305.S6 Sulphones
    - 305.T45 Thio compounds
    - 315 Urea and related compounds
      - Cf. QP801.U7, Animal biochemistry
  - Carbohydrates
    - Including sugars, starch, etc.
    - Cf. QP701 +, Animal biochemistry
    - Cf. TP375 +, Sugar manufacture
    - Cf. TP415 +, Starch
  - 320 Periodicals, societies, congresses, serial collections, yearbooks
  - 321 General works, treatises, and textbooks
  - 323 Cellulose
  - 325 Glycosides
    - Including glucosides, mannosides, and galactosides
  - 327 Tannins
  - Aromatic compounds
    - Cf. QD390 +, Condensed benzene rings
    - Cf. QD399 +, Heterocyclic compounds
  - 330 Periodicals, societies, congresses, serial collections, yearbooks
  - 331 General works, treatises, and textbooks
  - 335 Special aspects of the subject as a whole
  - 341.A-Z Special groups, A-Z
    - 341.A2 Acids and esters
    - 341.A4 Alcohols
    - 341.A6 Aldehydes and other carbonyl compounds
      - For ketones, see QD341.K2
    - 341.A7 Amides and hydrazides
    - 341.A8 Amino acids, see QD431 +
    - 341.A83 Amino compounds
    - 341.A9 Annulenes
    - 341.E7 Azo, hydrazo, and diazo compounds
    - 341.H8 Benzene, see QD341.H9
    - 341.H9 Ethers and oxides
    - 341.I6 Halogen compounds
    - 341.K2 Hydrocarbons, benzene, etc.
    - 341.N7 Imino compounds
    - 341.N8 Ketones
    - 341.N83 Nitriles and cyanogen derivatives
    - 341.P5 Nitro and nitroso compounds
    - 341.P6 Nitrogen derivatives (General)
    - 341.Q4 Phenols
    - 341.S3 Pseudophenols
    - 341.S6 Quinones
    - 341.S8 Sulphur derivatives (General)
    - Sulphoxides and solphones
    - Sulphonium compounds

## Organic chemistry -- Continued

## Antibiotics

- Cf. QP801.A63, Animal biochemistry  
Cf. RM265+, Therapeutics
- 375 General works, treatises, and textbooks  
377.A-Z Special substances, A-Z  
377.C4 Cephalosporin  
377.C5 Chloromycetin  
377.P4 Penicillin  
377.P55 Pimaricin  
377.S8 Streptomycin  
377.S85 Streptothricin  
377.T45 Tetracycline  
377.V5 Viomycin

## Polymers. Macromolecules

- Class here general works on chemical and physical properties of polymers  
Cf. QD139.P6, Technical analysis  
Cf. QD196, Inorganic polymers  
Cf. QD281.P6, Polymerization (Organic chemistry)  
Cf. QD399+, Macrocyclic compounds  
Cf. TP156.P6, Polymerization (Chemical engineering)  
Cf. TP1080+, Polymer technology  
For works on physical properties, see QC173.4.P65
- 380 Periodicals, societies, congresses, serial collections, yearbooks
- 380.3 Dictionaries and encyclopedias  
380.6 Nomenclature, terminology, notation, abbreviations  
380.7 Classification  
381 General works, treatises, and textbooks  
381.3 Juvenile works  
381.7 Addresses, essays, lectures  
381.8 Special aspects of the subject as a whole  
381.9.A-Z Special topics, A-Z  
381.9.A25 Acoustic properties  
381.9.C64 Conformational analysis  
381.9.D47 Deterioration  
381.9.E38 Electric properties  
381.9.E4 Electronic data processing  
381.9.M3 Fractionation, see QD381.9.S44  
381.9.M64 Mathematical models  
381.9.O66 Molecular weights  
381.9.P45 Optical properties  
381.9.P56 Permeability  
381.9.R3 Photochemistry  
381.9.R43 Radiation effects  
381.9.R48 Reduced gravity effects  
381.9.R48 Rheology  
381.9.S44 Ring-opening polymerization, see QD281.R5  
381.9.S65 Separation. Fractionation  
381.9.S65 Solubility and solutions



- Organic chemistry
- Polymers. Macromolecules
- Special topics, A-Z -- Continued
- 381.9.S87 Structure
- 381.9.S97 Surfaces and interfaces
- 381.9.T54 Thermal properties
- 382.A-Z Special types, A-Z
- 382.B47 Biomimetic polymers
- 382.B5 Block copolymers
- 382.C66 Conductors
- 382.C78 Crosslinked polymers, see QD382.P67
- 382.E48 Crystalline polymers
- 382.F55 Emulsion polymers
- 382.G7 Fluorescent polymers
- 382.H4 Graft copolymers
- 382.I45 Heat resistant polymers
- 382.O43 Ionomers
- 382.P45 Oligomers
- 382.P64 Photochromic polymers, see QD382.P45
- Photopolymers. Photochromic polymers
- Polyelectrolytes
- Polymer colloids, see QD549.2.P64
- Polymer liquid crystals, see QD923
- Polymer networks. Crosslinked polymers
- 382.P67 Semiconductors
- 382.S4 Telechelic polymers
- 382.T44 Water-soluble polymers
- 382.W3
- 383.A-Z Special substances, A-Z
- 383.A27 Acrylic polymers
- 383.A55 Amine polymers
- 383.A95 Azo polymers
- 383.B67 Boron organic polymers
- 383.E66 Epoxy polymers
- 383.G57 Glutamic acid polymers
- 383.S54 Methacrylate polymers, see QD383.A27
- 383.V56 Silicon polymers
- 385 Vinyl polymers
- 388 Laboratory manuals
- Handbooks, tables, formulas, etc.
- Condensed benzene rings
- 390 General works, treatises, and textbooks
- 390.3 Special aspects of the subject as a whole
- 391 Naphthalene and naphthalene derivatives
- 393 Anthracene and anthracene derivatives
- 395 Phenanthrene and phenanthrene derivatives
- Heterocyclic and macrocyclic chemistry and compounds
- 399 Periodicals, societies, congresses, serial collections, yearbooks
- 400 General works, treatises, and textbooks
- 400.3 Special aspects of the subject as a whole
- 400.5.A-Z Special topics, A-Z
- 400.5.S95 Synthesis
- 401 Cyclic compounds containing N

- Organic chemistry  
 Heterocyclic and macrocyclic  
 chemistry and compounds -- Continued
- 403 Cyclic compounds containing S  
 405 Cyclic compounds containing O  
 406 Cyclic compounds containing P
- Organometallic chemistry and compounds
- 410 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 411 General works, treatises, and textbooks  
 411.5 Addresses, essays, lectures  
 411.7.A-Z Special topics, A-Z  
 411.7.B37 Barbier reactions  
 411.8.A-Z Special groups of substances, A-Z  
 411.8.R37 Rare earth metals  
 411.8.T73 Transition metals  
 412.A-Z Special compounds. By chemical symbol of added  
 element, A-Z (Table Q1)
- 412.5 Handbooks, tables, formulas, etc.
- Biochemistry  
 Class here works on chemical aspects of biological  
 materials  
 Cf. QH345, General biochemistry of plants and  
 animals  
 Cf. QK861+, Plant biochemistry  
 Cf. QP501+, Animal biochemistry
- 415.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 415.A2 Collected works (nonserial)  
 415.A25 Dictionaries and encyclopedias  
 415.A3-Z General works, treatises, and textbooks  
 415.2 Addresses, essays, lectures  
 415.3 Problems, exercises, examinations  
 415.5 Laboratory manuals  
 415.7 Handbooks, tables, formulas, etc.  
 Antibiotics, see QD375+
- Terpenes, camphors, etc. Essential oils  
 Cf. TP958+, Essences (Chemical technology)
- 416.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 416.A3-Z General works, treatises, and textbooks  
 416.2 Addresses, essays, lectures  
 416.3 Problems, exercises, examinations  
 416.5 Laboratory manuals  
 416.7 Handbooks, tables, formulas, etc.
- Gums and resins  
 Cf. TP977+, Chemical technology  
 Cf. TP1101+, Plastic materials for synthetic  
 gums and resins
- 419.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 419.A3-Z General works, treatises, and textbooks  
 419.2 Addresses, essays, lectures

- Organic chemistry
  - Biochemistry
    - Gums and resins -- Continued
      - 419.3 Problems, exercises, examinations
      - 419.5 Laboratory manuals
      - 419.7 Handbooks, tables, formulas, etc.
    - Alkaloids
      - Cf. QK898.A4, Plant constituent
      - Cf. RM666.A4, Therapeutics
      - Cf. RS431.A53, Pharmaceutical chemistry
    - 421.A1 Periodicals, societies, congresses, serial collections, yearbooks
    - 421.A3-Z General works, treatises, and textbooks
    - 421.2 Addresses, essays, lectures
    - 421.3 Problems, exercises, examinations
    - 421.5 Laboratory manuals
    - 421.7 Handbooks, tables, formulas, etc.
    - Steroids
      - Cf. QP752.S7, Animal biochemistry
      - Cf. RS163.S8, Materia medica
    - 426.A1 Periodicals, societies, congresses, serial collections, yearbooks
    - 426.A3-Z General works, treatises, and textbooks
    - 426.2 Addresses, essays, lectures
    - 426.3 Problems, exercises, examinations
    - 426.5 Laboratory manuals
    - 426.7 Handbooks, tables, formulas, etc.
    - Proteins, peptides, amino acids, etc.
      - Cf. QP551+, Animal biochemistry
      - Cf. TX553.P7, Special constituents of food
    - 431.A1 Periodicals, societies, congresses, serial collections, yearbooks
    - 431.A3-Z General works, treatises, and textbooks
    - 431.2 Addresses, essays, lectures
    - 431.3 Problems, exercises, examinations
    - 431.5 Laboratory manuals
    - 431.7 Handbooks, tables, formulas, etc.
    - Nucleic acids
      - 433.A1 Periodicals, societies, congresses, serial collections, yearbooks
      - 433.A3-Z General works, treatises, and textbooks
      - 434 Ribonucleic acids
      - 435 Deoxyribonucleic acids
      - 436.A-Z Other related substances, A-Z
      - 436.N85 Nucleotides
    - 441 Colored compounds
      - Including phthaleins, eosin, animal and plant pigments
      - Cf. QK899, Botany
      - Cf. QP670+, Animal biochemistry
      - Cf. TP909.2+, Chemical technology
  - Physical and theoretical chemistry
    - Cf. QC170+, Constitution and properties of matter

- Physical and theoretical chemistry -- Continued
- 450 Periodicals, societies, congresses, serial collections, yearbooks
  - 450.2 Collected works (nonserial)
  - 451 Dictionaries and encyclopedias
  - 451.5 Nomenclature, terminology, notation, abbreviations
  - History
  - 452 General works
  - 452.5.A-Z By region or country, A-Z
  - General works, treatises, and textbooks
  - 453 Through 1970
  - 453.2 1971-
  - 455 Addresses, essays, lectures
  - 455.2 Special aspects of the subject as a whole
  - 455.3.A-Z Special topics, A-Z
  - 455.3.C64 Computer simulation
  - 455.3.E4 Electronic data processing
  - 455.3.G7 Graphic methods
  - 455.3.G75 Group theory
  - 455.3.L53 Lie algebras
  - 455.3.M3 Mathematics
  - Study and teaching. Research
  - 455.5 General works
  - 455.7 Outlines, syllabi
  - 456 Problems, exercises, examinations
  - 457 Laboratory manuals
  - 458 Handbooks, tables, formulas, etc.
  - 461 Atomic and molecular theory and structure. Laws of chemical combination and chemical bonds. Molecular dimensions
    - Cf. QD469, Valence
  - 461.5 Excited state chemistry
  - Quantum chemistry
  - 462.A1 Periodicals, societies, congresses, serial collections, yearbooks
  - 462.A3-Z General works, treatises, and textbooks
  - 462.5 Addresses, essays, lectures
  - 462.6.A-Z Special topics, A-Z
  - 462.6.D38 Data processing
  - 462.6.D45 Density functionals
  - 462.6.D46 Density matrices
  - 462.6.E53 Energy levels
  - 462.6.M36 Many-body methods
  - 462.6.P68 Potential energy surfaces
  - 462.6.R44 Relaxation phenomena
  - 462.6.S25 Scaling
  - 462.6.S94 Symmetry groups
  - 462.7 Problems, exercises, examinations
  - 462.9 Handbooks, tables, formulas, etc.
  - Atomic and molecular weights
  - 463 General works, treatises, and textbooks

- Physical and theoretical chemistry
- 464.A-Z Atomic and molecular weights -- Continued
- Individual elements and their compounds. By chemical symbol of principal element, A-Z (Table Q1)
- Chemical elements
- Nature and properties
- 466 General works
- 466.5 Isotopes
- Cf. QD601+, Radiochemistry
- Cf. TK9400+, Radioisotopes in nuclear engineering
- For isotopes of individual elements, see QD181.A+
- 467 Classification. Periodic law
- 469 Valence
- Cf. QC176.8.V34, Valence fluctuations
- 470 Allotropy
- 471 Chemical compounds - Structure and formulas
- Including isomerism, mesomerism, tautomerism
- Cf. QD481, Stereochemistry
- 473 Physical properties in relation to structure
- Including odor, color, and optical properties
- Cf. QD441, Colored organic compounds
- Cf. QD931+, Physical properties of crystals
- 474 Complex compounds
- Including clathrate and coordination compounds, chelates, and hydrates
- Cf. QD410+, Organometallic compounds
- 475 Physical inorganic chemistry
- 476 Physical organic chemistry
- 477 Acids and bases (General theory)
- 478 Solids. Solid state chemistry (Inorganic and organic)
- Cf. QC176+, Solid state physics
- Cf. QD506+, Surface chemistry
- Cf. QD901+, Crystallography
- Cf. TN689+, Physical metallurgy
- 480 Models of atoms, molecules, or chemical compounds
- 481 Stereochemistry. Molecular rotation
- Cf. QP517.S83, Biochemistry
- Conditions and laws of chemical reactions
- General works
- Chemical kinetics and mechanisms
- 502 General works
- 502.2 Nonlinear chemical kinetics. Oscillating chemical reactions
- 503 Chemical equilibrium. Phase rule, etc.
- 504 Thermodynamics
- 505 Catalysis
- Cf. QD716.P45, Photocatalysis
- 505.5 Chemical affinity and reactivity
- 505.8 Chemiluminescence
- Surface chemistry

- Physical and theoretical chemistry  
 Surface chemistry -- Continued
- 506.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 506.A3-Z General works, treatises, and textbooks
- 508 Addresses, essays, lectures
- 509.A-Z Special topics, A-Z
- 509.L54 Liquid-liquid interfaces  
 Liquid-solid interfaces, see QD509.S65
- 509.S65 Solid-liquid interfaces
- Thermochemistry  
 Cf. QC301+, Change of state (Physics)  
 Cf. QD79.T38, Thermal analysis (Analytical chemistry)  
 Cf. QD117.T4, Thermal analysis, Quantitative  
 Cf. QD157, Electric furnace operations (Inorganic chemistry)  
 Cf. QD277, Electric furnace operations (Organic chemistry)
- 510 Periodicals, societies, congresses, serial collections, yearbooks
- 511 General works, treatises, and textbooks
- 511.3 Addresses, essays, lectures
- 511.7 Problems, exercises, examinations
- 511.8 Handbooks, tables, formulas, etc.
- 515 Chemistry of high and low temperatures
- 516 Heat of formation, combustion, flame, explosion  
 Cf. TH9446.3+, Flammability of materials  
 Cf. TJ254.5+, Combustion engineering
- 517 Dissociation
- 518 Melting and boiling points
- 526 Fractional distillation  
 Cf. QD63.D6, Special operations in chemistry  
 Cf. QD281.D5, Operations in organic chemistry  
 Cf. TP156.D5, Chemical engineering processes  
 Cf. TP589+, Distilling industries
- 531 Manipulation of gases and vapors  
 Cf. TP242+, Chemical technology of gases
- 533 Vapor densities
- 535 Liquefaction of gases  
 Cf. TP243, Manufacture of liquefied gases
- 536 Research at low temperatures  
 Cf. TP480+, Low temperature engineering
- 538 Chemistry of high and low pressures  
 Theory of solution  
 Cf. QC182+, Special properties of matter  
 Cf. QD565, Electrolyte solutions
- 540 Periodicals, societies, congresses, serial collections, yearbooks
- 541 General works, treatises, and textbooks
- 543 Solubility, osmotic pressure, diffusion, etc.  
 Solvents
- 544 General works

- Physical and theoretical chemistry  
 Theory of solution  
 Solvents -- Continued  
 544.3      Aqueous  
 544.5      Nonaqueous  
             Cf. TP247.5, Technology of organic solvents  
 545      Freezing points and vapor pressures  
 547      Flocculation, precipitation, adsorption, etc.  
 548      Supersaturated solutions. Crystallization, etc.  
             Cf. QD921+, Crystal structure and growth  
             Colloids, sols, gels  
                 Cf. QP525, Animal biochemistry  
                 Cf. S593.3, Soil colloids  
 549      General works  
 549.2.A-Z    Special topics, A-Z  
 549.2.C64    Colloidal crystals  
 549.2.P64    Polymer colloids  
 Electrochemistry. Electrolysis  
             Cf. QC610.3+, Electric conductivity,  
                 electromotive force  
             Cf. QD115+, Electrochemical analysis  
             Cf. QD272.E4, Electrochemical analysis of  
                 organic compounds  
             Cf. QD273, Electrochemistry of organic  
                 compounds  
             Cf. QP517.B53, Bioelectrochemistry  
             Cf. TP250+, Industrial electrochemistry  
 551      Periodicals, societies, congresses, serial  
             collections, yearbooks  
 552      Collected works (nonserial)  
 552.5      Dictionaries and encyclopedias  
 553      General works, treatises, and textbooks  
 554      Popular works  
 554.5      Juvenile works  
 555      Addresses, essays, lectures  
 555.5      Special aspects of the subject as a whole  
 555.6.A-Z    Special topics, A-Z  
 555.6.E4     Electronic data processing  
 555.6.I58    Interfaces  
 555.6.L37    Laser electrochemistry  
 555.6.M36    Mathematical models  
 555.6.S65    Spectrum analysis  
 555.8      Study and teaching. Research  
 556      Problems, exercises, examinations  
 557      Laboratory manuals  
             Electrochemical laboratories  
 558      General works  
 558.2.A-Z    By region or country, A-Z  
             Apply table at QD51.5.A-Z  
 559      Instruments and apparatus  
 560      Handbooks, tables, formulas, etc.  
 Ions and ionization  
 561      General works

QD

- Physical and theoretical chemistry  
 Electrochemistry. Electrolysis  
 Ions and ionization -- Continued  
 562.A-Z Special topics, A-Z  
     Dissociation, see QD562.I65  
 562.E44 Electromotive force  
 562.E45 Electrophoresis  
 562.H93 Hydrogen-ion concentration  
 562.I63 Ion exchange. Ion exchange membranes  
 562.I65 Ionization. Dissociation  
 562.M54 Migration and velocity  
     Photodissociation, see QD716.P48  
     Photoionization, see QD716.P48  
     Velocity, see QD562.M54
- 564 Electric double layer  
 565 Electrolytes, electrolyte solutions  
     Cf. TS672, Plating baths
- 568 Electrolytic cells  
     Cf. TK2901 +, Electric power production from  
     chemical action
- 571 Electrode phenomena. Polarization, etc.  
 572.A-Z Special electrodes, A-Z  
 572.A65 Alkali metal  
 572.C37 Carbon  
 572.G53 Glass  
 572.H94 Hydrides  
 572.I66 Ion selective  
 572.I76 Iron  
 572.N53 Nickel  
 572.O85 Oxide  
 572.O88 Oxygen  
 572.S95 Sulphur
- 575.A-Z Special groups of substances, A-Z  
 575.C65 Complex compounds
- 581 Plasma chemistry  
     Cf. TP156.P5, Industrial plasma chemistry
- 591 Magnetochemistry  
     Cf. QD940, Magnetic properties of crystals
- Radiochemistry. Nuclear chemistry  
     Cf. QC794.95 +, Radioactivity, radioactive  
     substances in nuclear physics  
     Cf. TK9350 +, Nuclear engineering  
     Cf. TP249, Industrial radiochemistry.  
     Industrial radiation chemistry
- 601.A1 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 601.A2 Collected works (nonserial)  
     General works, treatises, and textbooks  
 601.A4-Z Through 1970  
 601.2 1971-  
 602 Addresses, essays, lectures  
 602.4 Special aspects of the subject as a whole  
 602.5.A-Z Special topics, A-Z



- Physical and theoretical chemistry
- Radiochemistry. Nuclear chemistry
  - Special topics, A-Z -- Continued
    - 602.5.E4 Electronic data processing
    - 603.A-Z Special substances. By chemical symbol of principal element, A-Z (Table Q1)
  - Study and teaching. Research
    - 604 General works
    - 604.3 Problems, exercises, examinations
    - 604.5 Experiments
    - 604.7 Laboratory manuals
  - Radiochemical laboratories. Hot laboratories
    - Cf. QC788+, Nuclear physics research laboratories and projects
    - 604.8 General works
    - 604.85.A-Z By region or country, A-Z
      - Apply table at QD51.5.A-Z
    - 604.9 Handbooks, tables, formulas, etc.
  - Radiochemical analysis
    - 605 General works
    - 606 Radioactivation analysis. Nuclear activation analysis
    - 607 Tracer techniques
      - For applications in special fields, see the field, e.g. QH324.3 Biology
    - 608 Isotope dilution analysis
  - Radiation chemistry
    - Cf. QC474+, Radiation physics
    - Cf. TA418.6, Radiation effects and tests of materials
    - Cf. TP249, Industrial radiochemistry.
    - Industrial radiation chemistry
  - 625 Periodicals, societies, congresses, serial collections, yearbooks
  - 626 Collected works (nonserial)
  - General works, treatises, and textbooks
    - 635 Through 1970
    - 636 1971-
    - 641 Addresses, essays, lectures
    - 642 Special aspects of the subject as a whole
    - 643.A-Z Special topics, A-Z
      - 643.C5 Chemical dosimetry
      - 643.P84 Pulse radiolysis
  - Study and teaching. Research
    - 646 General works
    - 646.3 Problems, exercises, examinations
    - 646.5 Experiments
    - 646.7 Laboratory manuals
    - 649 Handbooks, tables, formulas, etc.
  - 651.A-Z Special substances. By name, A-Z
    - 651.A36 Actinide elements
    - 651.A4 Alcohol
    - 651.A45 Ammonia

- Physical and theoretical chemistry  
 Radiation chemistry  
 Special substances. By name, A-Z -- Continued
- 651.C37 Carbohydrates  
 651.H93 Hydrocarbons  
 651.M38 Mercapto compounds. Thiols  
 651.M4 Methanol  
 651.N5 Nitrous oxide  
 651.P6 Polymers  
 Thiols, see QD651.M38  
 Water
- 651.W3  
 655 Particular types of radiation and chemical reaction,  
 e.g. x-rays (not A-Z)
- Photochemistry  
 Cf. QD275, Organic photochemistry  
 Cf. QP517.P45, Photobiochemistry  
 Cf. TP249.5, Industrial photochemistry  
 Cf. TR200+, Photographic chemistry
- 701 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 General works, treatises, and textbooks  
 Through 1970  
 1971-
- 708 Addresses, essays, lectures  
 708.2 Special aspects of the subject as a whole  
 714 Special topics, A-Z  
 715 Laser photochemistry  
 716.A-Z Oxidation-reduction  
 716.L37 Photocatalysis  
 716.O95 Photochromism  
 716.P45 Photodissociation. Photoionization  
 716.P48 Class here general works on chemical and  
 physical aspects of photoionization.  
 For works on the physics of ionization produced  
 by photons of light, X-rays or gamma rays,  
 see QC702.7.P48
- 719 Handbooks, tables, formulas, etc.  
 730.A-Z Special groups of substances, A-Z  
 730.C65 Coordination compounds  
 730.T73 Transition metal compounds  
 731.A-Z Special substances. By chemical symbol of principal  
 element, A-Z (Table Q1)
- 801 Sonochemistry  
 Cf. TP156.A33, Industrial use of sounds and  
 ultrasonics
- Crystallography  
 Cf. QE372+, Descriptive mineralogy
- 901 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 901.2 Collected works (nonserial)  
 902 Dictionaries and encyclopedias  
 902.5 Nomenclature, terminology, notation, abbreviations  
 History

- Crystallography
- History -- Continued
  - 903 General works
  - 903.3.A-Z By region or country, A-Z
  - Biography of crystallographers
  - 903.5 Collective
  - 903.6.A-Z Individual, A-Z
  - 903.8 Directories
  - 904 Early works through 1800
  - General works, treatises, and textbooks
  - 905 1801-1969
  - 905.2 1970-
  - 906 Pictorial works and atlases
  - 906.3 Juvenile works
  - 906.5 Addresses, essays, lectures
  - 906.6 Special aspects of the subject as a whole
  - 906.7.A-Z Special topics, A-Z
  - 906.7.E37 Electron microscopy
  - 906.7.E4 Electronic data processing
  - Statistical methods, see QD919
  - Study and teaching. Research
  - 907 General works
  - 907.3 Problems, exercises, examinations
  - 907.5 Laboratory manuals
  - 907.7 Instruments and apparatus
  - 908 Handbooks, tables, formulas, etc.
  - Geometrical and mathematical crystallography
  - 911 General works
  - 912 Fundamental systems
  - Including tetragonal, orthorhombic, monoclinic systems
  - 913 Diagrams
  - 915 Goniometric measurements
  - 919 Statistical methods
  - Crystal structure and growth
  - Including crystal lattices, defects, and dislocations
  - Cf. QD548, Crystallization in solutions
  - Cf. QD549.2.C64, Colloidal crystals
  - For lattice dynamics, see QC176.8.L3
  - 921 General works
  - 923 Liquid crystals
  - Including polymer liquid crystals
  - Cf. QC173.4.L55, Physics
  - 926 Quasicrystals
  - Cf. QC173.4.Q36, Physics
  - Physical properties of crystals
  - Cf. QC176+, Solids, solid state physics
  - 931 General works
  - 933 Mechanical properties
  - Including cohesion, elasticity, plasticity, cleavage, hardness
  - 937 Thermal properties

- Crystallography
- Physical properties of crystals -- Continued
- 939 Electric properties  
Cf. QC595, Pyroelectricity  
Cf. QC595.5, Piezoelectricity
- 940 Magnetic properties
- 941 Optical properties  
Including isotropy, anisotropy, refractivity,  
reflectivity, crystal rotation  
Cf. QC440+, Polarization
- 945 X-ray crystallography
- 947 Other physical properties (not A-Z)
- 951 Chemical crystallography  
Including relationships between structure and  
bonding, isomorphism, polymorphism, pseudomorphism
- 999 Miscellany and curiosa

- Geology  
 Cf. QB603.G46, Planetary geology  
 Cf. QH343.4, Geobiology  
 Cf. TA703+, Engineering geology  
 Cf. UG465+, Military geology  
 For economic geology and mineral resources, see TN1+
- 1 Periodicals, societies, congresses, serial collections, yearbooks
- 3 Collected works (nonserial)
- 4 Voyages and expeditions
- 5 Dictionaries and encyclopedias
- 6 Philosophy
- 7 Nomenclature, terminology, notation, abbreviations
- History
- 11 General works
- 13.A-Z By region or country, A-Z
- Biography
- 21 Collective
- 22.A-Z Individual, A-Z
- e.g.
- 22.D25 Dana, J. D.
- 22.L8 Lyell
- 22.S77 Steno, Nicolaus, Bishop
- 23 Directories
- 25 Early works through 1800
- General works, treatises, and advanced textbooks
- 26 1801-1969
- 26.2 1970-
- Elementary textbooks
- 28 General
- 28.2 Physical geology
- 28.3 Historical geology
- 29 Juvenile works
- 31 Popular works
- 33 Special aspects of the subject as a whole
- 33.2.A-Z Special topics, A-Z
- 33.2.A3 Aerial photography in geology
- 33.2.A7 Artificial satellites in geology
- 33.2.B6 Borings
- 33.2.C48 Chaotic behavior in systems
- 33.2.C5 Charts, diagrams, etc.
- Computer simulation, see QE48.8
- Data processing, see QE48.8
- 33.2.F73 Fractals
- 33.2.M3 Mathematical geology
- 33.2.P7 Practical geology
- 33.2.R33 Radar in earth sciences
- 33.2.R4 Remote sensing
- 33.2.S6 Spectrum analysis in geology
- 33.2.S82 Statistical methods
- 33.2.S9 Subsurface geology
- 33.2.T45 Thermal analysis
- 33.2.T7 Translating services. Translating

- 34 Geology as a profession. Vocational guidance  
 35 Addresses, essays, lectures  
 36 Geological maps  
     Class here works on making, interpretation, and use of  
     geological maps  
     For the maps themselves, see G3200 +  
 Special fields  
 37 Agricultural geology  
     Engineering geology, see TA703 +  
 38 Environmental geology  
     Military geology, see UG465 +  
 39 Submarine geology  
     For submarine geology of a particular body of water,  
     see QE350.2-62  
     Cf. GC83 +, Submarine topography  
     Cf. QE511.7, Sea-floor spreading  
 39.5.A-Z Other, A-Z  
 39.5.P25 Paleooceanography  
     Paleoclimatology, see QC884 +  
     Paleoecology, see QE720  
     Paleogeography, see QE501.4.P3  
 39.5.P27 Paleohydrology  
 39.5.P3 Paleolimnology  
     Paleomagnetism, see QE501.4.P35  
     Paleopedology, see QE473  
     Paleoseismology, see QE539.2.P34  
 39.5.U7 Urban geology  
     For urban geology of a particular place, see QE65 +  
 Study and teaching. Research  
 40 General works  
 41 Outlines, syllabi  
 42 Problems, exercises, examinations  
 43 Models, diagrams, etc.  
 44 Laboratory manuals  
 45 Fieldwork  
     By region or country  
     United States  
     General works  
     By region or state, A-Z  
     *Under each state:*  
     .x *General works*  
     .x2A-.x2Z *Local, A-Z*  
     .x3A-.x3Z *Special schools or universities. By*  
     *name, A-Z*  
 48.A-Z Other regions or countries, A-Z  
     *Under each country:*  
     .x *General works*  
     .x2A-.x2Z *Local, A-Z*  
     .x3A-.x3Z *Special schools or universities. By*  
     *name, A-Z*  
 48.8 Data processing  
     Including computer simulation  
 48.85 Communication in geology

- Laboratories
- 49.A1 General works
- 49.A3-Z By region or country, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Individual laboratories. *By name, A-Z*
- 49.5 Instruments and apparatus
- 50 Collection and preservation  
 Museums. Exhibitions
- 51.A1 General works
- 51.A2-Z By region or country, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Special. *By city, A-Z*
- 52 Handbooks, tables, formulas, etc.
- 53 Miscellany and curiosa
- 55 Dealers' catalogs of specimens
- 61 Surveys (History, organization, etc.)
- Geographical divisions
- 65 Miscellaneous regions  
 e.g. British empire
- 70 Arctic regions. Greenland  
 America
- 70.5 General works  
 North America
- 71 General works  
 United States
- 72 Surveys (General)
- 73 Surveys, before 1861
- 74 Surveys, 1865-1879  
 United States Geological Survey  
 General publications of the USGS
- 75 General publications of the USGS
- 76 Works about the USGS
- 77 General works  
 Special regions
- 78 Lake region and Saint Lawrence
- 78.3 North. Northeast. East. Appalachian  
 Mountains
- 78.5 South. Southeast
- 78.7 Central. Mississippi Valley
- 79 Western states. Rocky Mountains
- 79.5 Southwest
- By state  
 Class counties, physiographic regions, etc. in  
 the local number
- Alabama
- 81 General works
- 82.A-Z Local, A-Z
- Alaska
- 83 General works
- 84.A-Z Local, A-Z
- Arizona
- 85 General works

## Geographical divisions

## America

## North America

## United States

## By state

- 86.A-Z Arizona -- Continued
  - Local, A-Z
- 87 Arkansas
  - General works
- 88.A-Z Local, A-Z
- 89 California
  - General works
- 90.A-Z Local, A-Z
- 91 Colorado
  - General works
- 92.A-Z Local, A-Z
- 93 Connecticut
  - General works
- 94.A-Z Local, A-Z
- 95 Delaware
  - General works
- 96.A-Z Local, A-Z
- 97 District of Columbia
- 99 Florida
  - General works
- 100.A-Z Local, A-Z
- 101 Georgia
  - General works
- 102.A-Z Local, A-Z
- Hawaii, see QE349.H3
- 103 Idaho
  - General works
- 104.A-Z Local, A-Z
- 105 Illinois
  - General works
- 106.A-Z Local, A-Z
- 109 Indiana
  - General works
- 110.A-Z Local, A-Z
- 111 Iowa
  - General works
- 112.A-Z Local, A-Z
- 113 Kansas
  - General works
- 114.A-Z Local, A-Z
- 115 Kentucky
  - General works
- 116.A-Z Local, A-Z
- 117 Louisiana
  - General works
- 118.A-Z Local, A-Z
- 119 Maine
  - General works



## Geographical divisions

## America

## North America

## United States

## By state

- 120.A-Z Maine -- Continued  
Local, A-Z
- 121 Maryland  
General works
- 122.A-Z Local, A-Z
- 123 Massachusetts  
General works
- 124.A-Z Local, A-Z
- 125 Michigan  
General works
- 126.A-Z Local, A-Z
- 127 Minnesota  
General works
- 128.A-Z Local, A-Z
- 129 Mississippi  
General works
- 130.A-Z Local, A-Z
- 131 Missouri  
General works
- 132.A-Z Local, A-Z
- 133 Montana  
General works
- 134.A-Z Local, A-Z
- 135 Nebraska  
General works
- 136.A-Z Local, A-Z
- 137 Nevada  
General works
- 138.A-Z Local, A-Z
- 139 New Hampshire  
General works
- 140.A-Z Local, A-Z
- 141 New Jersey  
General works
- 142.A-Z Local, A-Z
- 143 New Mexico  
General works
- 144.A-Z Local, A-Z
- 145 New York  
General works
- 146.A-Z Local, A-Z
- 147 North Carolina  
General works
- 148.A-Z Local, A-Z
- 149 North Dakota  
General works
- 150.A-Z Local, A-Z
- Ohio

## Geographical divisions

## America

## North America

## United States

## By state

## Ohio -- Continued

- |         |                    |
|---------|--------------------|
| 151     | General works      |
| 152.A-Z | Local, A-Z         |
|         | Oklahoma           |
| 153     | General works      |
| 154.A-Z | Local, A-Z         |
|         | Oregon             |
| 155     | General works      |
| 156.A-Z | Local, A-Z         |
|         | Pennsylvania       |
| 157     | General works      |
| 158.A-Z | Local, A-Z         |
|         | Rhode Island       |
| 159     | General works      |
| 160.A-Z | Local, A-Z         |
|         | South Carolina     |
| 161     | General works      |
| 162.A-Z | Local, A-Z         |
|         | South Dakota       |
| 163     | General works      |
| 164.A-Z | Local, A-Z         |
|         | Tennessee          |
| 165     | General works      |
| 166.A-Z | Local, A-Z         |
|         | Texas              |
| 167     | General works      |
| 168.A-Z | Local, A-Z         |
|         | Utah               |
| 169     | General works      |
| 170.A-Z | Local, A-Z         |
|         | Vermont            |
| 171     | General works      |
| 172.A-Z | Local, A-Z         |
|         | Virginia           |
| 173     | General works      |
| 174.A-Z | Local, A-Z         |
|         | Washington (State) |
| 175     | General works      |
| 176.A-Z | Local, A-Z         |
|         | West Virginia      |
| 177     | General works      |
| 178.A-Z | Local, A-Z         |
|         | Wisconsin          |
| 179     | General works      |
| 180.A-Z | Local, A-Z         |
|         | Wyoming            |
| 181     | General works      |
| 182.A-Z | Local, A-Z         |

## Geographical divisions

## America

## North America -- Continued

## Canada

- 185 General works
- 186 Alberta
- 187 British Columbia
- 188 Manitoba
- 189 New Brunswick
- 190 Nova Scotia
- 191 Ontario
- 192 Prince Edward Island
- 193 Québec (Province)
- 194 Saskatchewan
- 195 Yukon Territory and Mackenzie District
- 196.A-Z Other northern territories, A-Z
- 196.B3 Baffin Island
- 196.F7 Franklin
- 196.H8 Hudson Bay
- 196.K4 Keewatin
- 196.N7 Labrador, see QE199
- Northwest Territories
- Ungava, see QE193
- 199 Newfoundland. Labrador

## Latin America

- 200 General works
- Mexico
- 201 General works
- 203.A-Z Local, A-Z
- Central America
- 210 General works
- 211 Belize
- 212 Costa Rica
- 213 Guatemala
- 214 Honduras
- 215 Nicaragua
- 216 Panama
- 217 El Salvador
- West Indies. Caribbean Area
- 220 General works
- 221 Bahamas
- 222 Cuba
- 223 Haiti
- 224 Jamaica
- 225 Puerto Rico
- 226.A-Z Other islands, A-Z
- 229 Bermuda
- South America
- 230 General works
- 231 Argentina
- 233 Bolivia
- 235 Brazil
- 237 Chile

## Geographical divisions

## America

## Latin America

## South America -- Continued

- 239 Colombia
- 241 Ecuador
- Guianas
  - 243 General works
  - 243.2 Guyana (British Guiana)
  - 243.3 Surinam (Dutch Guiana)
  - 243.4 French Guiana
- 245 Paraguay
- 247 Peru
- 249 Uruguay
- 251 Venezuela
- South Atlantic islands
  - 256 General works
  - 257 Falkland Islands
  - 258.A-Z Other South Atlantic islands, A-Z
    - e.g.
    - 258.S6 South Georgia Island

## Europe

## Great Britain

- 261 General works
- England and Wales
  - 262.A1 General works
  - 262.A3-Z Local, A-Z
    - e.g.
    - 262.A6 Anglesey
    - 262.B75 Broads, The
    - 262.D36 Dean, Forest of
    - 262.E3 England
    - 262.G5 Gloucestershire
    - 262.L2 Lake District
    - 262.M2 Man, Isle of
    - 262.P8 Purbeck, Isle of
    - 262.W2 Wales
    - 262.W6 Wight, Isle of
- 264 Scotland
- 265 Ireland
- 266 Austria
- 266.2 Hungary
- 267 Czechoslovakia
- 267.2 Liechtenstein
- 268 France
- 269 Germany
- 271 Greece
- 272 Italy
- 272.5 Malta
- 273 Netherlands
- 274 Belgium
- 275 Luxembourg

- Geographical divisions
- Europe -- Continued
- 276 Soviet Union. Russia (Federation)  
Cf. QE315, Central Asia
- 276.3 Finland
- 276.5 Poland
- Baltic States
- 276.7 General works
- 276.72 Estonia
- 276.74 Latvia
- 276.76 Lithuania
- 277 Scandinavia
- 278 Denmark
- 278.5 Faroe Islands
- 279 Iceland
- 281 Norway
- 282 Sweden
- 283 Spain
- 284 Portugal. Azores
- 285 Switzerland. Alps
- Balkan States
- 287 General works
- 287.2 Albania
- 287.4 Bulgaria
- 287.6 Romania
- 287.8 Yugoslavia
- 288.A-Z Other regions or countries of Europe, A-Z
- Asia
- 289 General works
- 290 Afghanistan
- Arabian Peninsula
- 291.A1 General works
- 291.A3-Z By region or country, A-Z
- 291.A3 Aden
- 291.K9 Kuwait
- 291.M9 Muscat and Oman. Oman  
Oman, see QE291.M9
- 291.S28 Saudi Arabia
- 294 China
- 294.3 Taiwan
- 294.5 Mongolia
- 295 India
- 295.2 Burma
- 295.3 Sri Lanka
- 295.4 Pakistan
- 296 Indochina
- 298 Thailand
- 299 Malay Peninsula. Straits Settlements
- 299.5 Malaysia
- Indonesia. Dutch East Indies
- 301.A1 General works
- 301.A3-Z By region, island, etc., A-Z  
e.g.

## Geographical divisions

## Asia

Indonesia. Dutch East Indies

By region, island, etc., A-Z -- Continued

- 301.A5 Amboina
  - 301.B7 Borneo
  - 301.C4 Celebese
  - 301.C45 Ceram
  - 301.D8 Dutch East Indies
  - 301.J4 Java
  - 301.K3 Kabaena Island
  - 301.M7 Moluccas
  - 301.S9 Sumatra
  - 301.S94 Sunda Islands
  - 301.T5 Timor
  - 302 Philippines
  - 304 Japan
  - 305 Korea
    - Including South Korea
  - 305.2 North Korea
  - 307 Iran
  - 307.2 Iraq
  - 315 Soviet Central Asia. Central Asia. Siberia
    - Cf. QE276, Russia (Federation)
  - 316 Turkey
  - 317 Armenia
  - 318 Israel. Palestine
  - 318.2 Jordan
  - 318.3 Lebanon
  - 318.4 Syria
  - 319.A-Z Other regions or countries, A-Z
    - 319.C9 Cyprus
    - 319.H5 Himalaya Mountains
    - 319.N4 Near East. Middle East
- Africa
- 320 General works
  - 321 Ethiopia
  - Former British possessions
    - 325 South Africa
    - 325.5 Central Africa (General)
    - 326 East Africa (General)
    - 327.A-Z Other, A-Z
      - 327.B3 Basutoland. Lesotho.
      - 327.B4 Bechuanaland. Botswana
      - Cameroon, see QE339.C35
      - 327.G6 Ghana. Gold Coast
      - 327.K4 Kenya
      - Lesotho, see QE327.B3
      - Malawi, see QE327.N8
      - 327.N5 Nigeria
      - 327.N8 Nyasaland. Malawi
      - 327.R55 Northern Rhodesia. Zambia
      - 327.R6 Rhodesia, Southern. Zimbabwe

## Geographical divisions

## Africa

## Former British possessions

## Other, A-Z -- Continued

327.S2  
327.S5  
327.S6  
327.S77  
327.S8  
327.T3  
327.U4

Saint Helena  
Sierra Leone  
Sokotra (Yemen)  
Sudan  
Swaziland  
Tanzania. Tanganyika  
Uganda  
West Cameroon, see QE339.C35  
Zambia, see QE327.R55  
Zanzibar  
Zimbabwe, see QE327.R6

327.Z3

328

## Egypt

## Former French possessions

329  
329.2  
330  
331.A-Z  
331.B45

Algeria  
Tunisia  
Madagascar  
Other, A-Z  
Benin  
Burkina Faso, see QE331.U64  
Cameroun, see QE339.C35  
Central African Republic, see QE331.U2  
Chad  
Côte d'Ivoire, see QE331.I9  
Dahomey, see QE331.B45  
French Equatorial Africa  
French West Africa  
Gabon  
Guinea  
Ivory Coast. Côte d'Ivoire  
Mali  
Mauritania  
Morocco, see QE339.M8  
Niger  
Ubangi-Shari. Central African Republic  
Upper Volta. Burkina Faso

331.C53

331.F65  
331.F7  
331.G3  
331.G8  
331.I9  
331.M27  
331.M3

331.N5  
331.U2  
331.U64  
332

## Former German possessions

Cf. QE339.C35, Kamerun

334

## Former Italian possessions. Libya

335

Zaire

335.5

Congo (Brazzaville)

## Former Portuguese possessions

337

General works

337.3

Mozambique

337.5

Angola

337.7

Guinea-Bissau

338

## Spanish possessions

339.A-Z

## Other regions or countries, A-Z

339.B85

Burundi

339.C35

Cameroon

QE

## Geographical divisions

## Africa

## Other regions or countries, A-Z -- Continued

- 339.L5 Liberia
- 339.M8 Morocco
- 339.N34 Namibia
- 339.N66 Northeast Africa
- 339.N67 Northwest Africa
- 339.R85 Rwanda
- 339.S2 Sahara
- 339.S6 Somalia
- 339.S68 Southern Africa
- 339.S8 Sub-Saharan Africa
- 339.W46 West Africa

## Indian Ocean islands

## General works

- 339.5
- 339.6.A-Z By region, island, etc., A-Z
- 339.6.M35 Maldives
- 339.6.R48 Réunion

## Australia

## General works

- 340 New South Wales
- 341 New Zealand
- (342) see QE348.2
- 343 North Australia. Northern Territory
- 344 Queensland
- 345 South Australia
- 346 Tasmania
- 347 Victoria
- 348 Western Australia
- 348.2 New Zealand
- 349.A-Z Pacific islands, A-Z

e.g.

- 349.F5 Fiji
- 349.H3 Hawaii
- 349.M35 Marshall Islands
- 349.N43 New Hebrides. Vanuatu
- 349.O4 Oceania
- 349.S64 Solomon Islands
- 349.T66 Tonga

350

## Antarctica

## Atlantic Ocean

## General works

- 350.2
- 350.22.A-Z Local major divisions, A-Z
- 350.22.B34 Baltic Sea
- 350.22.B37 Barents Sea
- 350.22.B55 Black Sea
- 350.22.B65 Bothnian Sea
- 350.22.C37 Caribbean Sea
- 350.22.E52 English Channel
- 350.22.G53 Gibraltar, Straits of
- 350.22.G73 Greenland-Iceland Sea
- 350.22.L33 Labrador Sea



## Geographical divisions

## Atlantic Ocean

## Local major divisions, A-Z -- Continued

- 350.22.M32 Maine, Gulf of  
 350.22.M42 Mediterranean Sea  
 350.22.M48 Mexico, Gulf of  
 350.22.M5 Mid-Atlantic Bight  
 350.22.M52 Mid-Atlantic Ridge  
 350.22.N65 North Atlantic Ocean  
 350.22.N67 North Sea  
 350.22.N68 Norwegian Sea  
 350.22.R48 Reykjanes Ridge  
 350.22.S68 South Atlantic Ocean  
 Straits of Gibraltar, see QE350.22.G53

## Pacific Ocean

## General works

## Local major divisions, A-Z

- 350.4  
 350.42.A-Z  
 350.42.A43 Alaska, Gulf of  
 350.42.B45 Bering Sea Region  
 350.42.C45 China Sea  
 350.42.J34 Japan Sea  
 350.42.N65 North Pacific  
 350.42.O44 Okhotsk Sea  
 350.42.P45 Philippine Sea  
 350.42.S66 South China Sea  
 350.42.S68 South Pacific Ocean  
 350.42.T37 Tasman Sea

## Indian Ocean

## General works

## Local major divisions, A-Z

- 350.5  
 350.52.A-Z  
 350.52.A73 Arabian Sea  
 350.52.R43 Red Sea

## Arctic Ocean

## General works

## Local major divisions, A-Z

- 350.6  
 350.62.A-Z  
 350.62.C45 Chukchi Sea

## Mineralogy

## For crystallography, see QD901 +

- 351 Periodicals, societies, congresses, serial collections, yearbooks  
 353 Collected works (nonserial)  
 355 Dictionaries and encyclopedias  
 357 Nomenclature, terminology, notation, abbreviations

## History

## General works

## By region or country, A-Z

- 359.A1  
 359.A2-Z

## Biography

## Collective

## Individual, A-Z

- 361.A2  
 361.A3-Z  
 e.g.  
 361.C5 Clarke  
 Dana, see QE22.D25  
 361.H2 Haidinger

- Mineralogy -- Continued
- 361.2 Directories
  - 362 Early works through 1800
  - General works, treatises, and textbooks
    - 1801-1969
    - 1970-
  - 363 Pictorial works and atlases
  - 363.2 Special aspects of the subject as a whole
  - 363.8 Special topics, A-Z
  - 364 Electronic data processing
  - 364.2.A-Z Fluid inclusions
  - 364.2.E4 Fluorescent minerals
  - 364.2.F47 Heavy minerals
  - 364.2.F5 High pressure
  - 364.2.H4 Metallogeny
  - 364.2.H54 Metasomatism
  - 364.2.M37 Paragenesis
  - 364.2.M4 Radioactive minerals
  - 364.2.P3 Rock-forming minerals, see QE397
  - 364.2.R3 Statistical methods
  - 364.2.S7 Surfaces
  - 364.2.S87 Thermodynamics
  - 364.2.T45 Popular works
  - 365 Juvenile works
  - 365.2 Study and teaching. Research
  - 366 Mineralogical laboratories
    - General works
    - By region or country, A-Z
    - Apply table at QE49.A3-Z
  - 366.15 Collection and preservation
  - 366.16.A-Z Handbooks, tables, formulas, etc.
  - 366.2 Determinative mineralogy
    - Cf. QD87, Blowpipe analysis
    - For assaying, see TN550+
  - 366.8 General works, treatises, and textbooks
    - 1801-1969
    - 1970-
  - 367 Special aspects of the subject as a whole
  - 367.2 Special topics, A-Z
  - 368.9 Colloidal determinations
  - 369.A-Z Differential thermal analysis
  - 369.C6 Fedorovskii method
  - 369.D5 Immersion method
  - 369.D5 Microscopic determinations
  - 369.F4 Optical determinations
  - 369.I55 Physical properties
  - 369.M5 Specific gravity determinations
  - 369.M5 Spectrum analysis
  - 369.O6 Ultraviolet
  - 369.P49 X-ray powder
  - 369.S6 Mineralogical chemistry
  - 369.S65 Descriptive mineralogy
  - 369.U4 General works, treatises, and textbooks
  - 369.X2
  - 371

## Mineralogy

## Descriptive mineralogy

General works, treatises,  
and textbooks -- Continued

372

1801-1969

372.2

1970-

## Geographical divisions

## North America

373

General works

United States

375

General works

375.5.A-Z

By region or state, A-Z

Canada

376

General works

376.5.A-Z

By region, province, or territory, A-Z

Mexico

377

General works

377.5.A-Z

By region or state, A-Z

Central America

377.7.A1

General works

377.7.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with  
adjacent mainland

West Indies. Caribbean Area

378.A1

General works

378.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with  
adjacent mainland

## South America

379.A1

General works

379.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Europe

381.A1

General works

381.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Asia

382.A1

General works

382.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Africa

383.A1

General works

383.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Australia

384

General works

384.2.A-Z

By region, state, or territory, A-Z

## New Zealand

384.5

General works

## Mineralogy

## Descriptive mineralogy

## Geographical divisions

## New Zealand -- Continued

384.7.A-Z

By region or statistical area, A-Z

## Pacific islands

385.A1

General works

385.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Arctic regions

385.5.A1

General works

385.5.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Antarctica

385.6.A1

General works

385.6.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Museums. Exhibitions

386.A1

General works

386.A2-Z

By region or country, A-Z

Apply table at QE51.A2-Z

387

Dealers' catalogs of specimens

388

## Classification

## Special groups of minerals

## Descriptive and determinative

389

General works

389.1

Native elements

389.2

Sulphides, selenides, tellurides, arsenides, antimonides

389.3

Sulpho salts (Sulpharsenites, sulphantimonites, sulphobismuthites)

389.4

Halides (Chlorides, bromides, iodides, fluorides)

389.5

Oxides

## Oxygen salts

389.6

General works

389.61

Carbonates

Silicates, titanates

389.62

General works

389.625

Clay minerals

389.63

Niobates, tantalates

389.64

Phosphates, arsenates, vanadates, antimonates, nitrates

389.65

Borates, uranates

389.66

Sulphates, chromates, tellurates

389.67

Tungstates, molybdates

389.7

Salts of organic acids: oxalates, mellates, etc.

389.8

Hydrocarbon compounds

## Ore minerals (General)

390

General works

390.2.A-Z

Special ore minerals, A-Z

## Mineralogy

## Special groups of minerals

## Ore minerals (General)

## Special ore minerals, A-Z -- Continued

- |           |  |
|-----------|--|
| 390.2.A58 | Antimony ores                                  |
| 390.2.B46 | Beryllium ores                                 |
| 390.2.B67 | Boron ores                                     |
| 390.2.C58 | Cobalt ores                                    |
| 390.2.C6  | Copper ores                                    |
| 390.2.G65 | Gold ores                                      |
| 390.2.I76 | Iron ores                                      |
| 390.2.L43 | Lead ores                                      |
| 390.2.L57 | Lithium ores                                   |
| 390.2.M35 | Manganese ores                                 |
| 390.2.M47 | Mercury ores                                   |
| 390.2.N53 | Nickel ores                                    |
| 390.2.S55 | Silver ores                                    |
| 390.2.T42 | Tellurium ores                                 |
| 390.2.T45 | Thorium ores                                   |
| 390.2.T48 | Tin ores                                       |
| 390.2.T5  | Titanium ores                                  |
| 390.2.T85 | Tungsten ores                                  |
| 390.2.U7  | Uranium ores                                   |
| 390.2.V36 | Vanadium ores                                  |
| 390.2.Z54 | Zinc ores                                      |
| 390.5     | Hydrothermal deposits. Hydrothermal alteration |
| 391.A-Z   | Description of special minerals, A-Z           |
| 391.A18   | Acmite   |
| 391.A2    | Actinolite                                     |
|           | Agate, see QE391.Q2                            |
| 391.A4    | Allanite                                       |
| 391.A45   | Alunite  |
| 391.A48   | Amazonite                                      |
| 391.A5    | Amber  |
| 391.A53   | Amphiboles                                     |
| 391.A55   | Analcime                                       |
| 391.A57   | Andesine                                       |
| 391.A572  | Andorite                                       |
| 391.A573  | Anhydrite                                      |
| 391.A6    | Apatite  |
| 391.A8    | Augite   |
| 391.B2    | Babingtonite                                   |
| 391.B35   | Barite   |
| 391.B5    | Benitoite                                      |
| 391.B55   | Bentonite                                      |
| 391.B6    | Beryl  |
| 391.B64   | Biotite  |
| 391.B7    | Bøggildite                                     |
| 391.B73   | Boehmite                                       |
| 391.B75   | Botryogen                                      |
| 391.B78   | Brannerite                                     |
| 391.B82   | Brucite  |
| 391.C2    | Calcite  |

## Mineralogy

## Description of special minerals, A-Z -- Continued

|          |                            |
|----------|----------------------------|
| 391.C25  | Cassiterite                |
| 391.C3   | Celadonite                 |
| 391.C32  | Celestite                  |
| 391.C35  | Chalcocite                 |
| 391.C38  | Chalybite                  |
| 391.C392 | Chamosite                  |
| 391.C5   | Chlorite                   |
| 391.C6   | Chondrodite                |
| 391.C65  | Chromite                   |
| 391.C657 | Chrysoberyl                |
| 391.C67  | Chrysotile                 |
| 391.C8   | Colemanite                 |
| 391.C84  | Cookeite                   |
| 391.C9   | Corundum                   |
| 391.C94  | Cuprodescloizite           |
| 391.D3   | Datolite                   |
| 391.D6   | Dolomite                   |
| 391.D8   | Durangite                  |
| 391.E43  | Electrum                   |
| 391.E5   | Endlichite                 |
| 391.E6   | Enstatite                  |
| 391.E8   | Epidote                    |
| 391.E9   | Evansite                   |
| 391.F3   | Feldspar                   |
| 391.F4   | Ferberite                  |
| 391.F45  | Ferrierite                 |
|          | Flint, see QE471.15.F47    |
| 391.F6   | Fluorspar                  |
| 391.G3   | Galena                     |
| 391.G37  | Garnet                     |
| 391.G5   | Glauconite                 |
| 391.G55  | Gmelinite                  |
| 391.G6   | Gold                       |
| 391.G8   | Gunnbjarnite               |
| 391.G93  | Gypsum                     |
| 391.H34  | Hedenbergite               |
| 391.H4   | Hematite                   |
| 391.H5   | Hercynite                  |
| 391.H55  | Heulandite                 |
| 391.H8   | Hortonolite                |
| 391.H84  | Huebnerite                 |
|          | Iceland spar, see QE391.C2 |
|          | Idocrase, see QE391.V55    |
| 391.I4   | Ilimaussite                |
| 391.I44  | Ilmenite                   |
| 391.I7   | Iron                       |
|          | Jade, see QE394.J3         |
|          | Jasper, see QE391.Q2       |
| 391.K2   | Kaolinite                  |
| 391.L28  | Lawsonite                  |
| 391.L3   | Lazurite                   |

## Mineralogy

## Description of special minerals, A-Z -- Continued

- 391.L4 Leucite  
 391.L5 Leucoxene, see QE396  
 391.L8 Liebigite  
 391.M2 Ludwigite  
 391.M22 Magnesite  
 391.M25 Magnetite  
 391.M3 Malachite  
 391.M34 Marcasite  
 391.M4 Meerschau  
 391.M45 Melanosiderite  
 391.M6 Merumite  
 391.M67 Mica  
 391.M7 Moissanite  
 391.M75 Molybdenite  
 391.M8 Monazite  
 391.M85 Mordenite  
 391.M85 Muscovite  
 391.N27 Natrolite  
 391.N3 Naujakasite  
 391.O45 Nephrite, see QE391.A2  
 Olivine  
 Opal, see QE394.O7  
 Palacheite, see QE391.B75  
 Palygorskite  
 391.P34 Pecoraite  
 391.P44 Perovskite  
 391.P47 Petalite  
 391.P48 Pickeringite  
 391.P5 Plagioclase  
 391.P55 Pollucite  
 391.P56 Pyrophyllite  
 391.P8 Pyroxene  
 391.P84 Pyroxmangite  
 391.P86 Pyrrhotite  
 391.P9 Quartz  
 391.Q2 Ramirite, see QE391.C94  
 Riebeckite  
 391.R5 Roscoelite  
 391.R7 Rutile  
 391.R88 Sapphirine  
 391.S25 Scapolite  
 391.S28 Scheelite  
 391.S3 Schungite, see QE475.S39  
 Sepiolite, see QE391.M34  
 391.S47 Serpentine  
 391.S49 Siderite  
 391.S5 Sillimanite  
 391.S6 Smectite  
 391.S65 Sphalerite  
 391.S67 Sphene  
 391.S68 Spinel

## Mineralogy

Description of special minerals, A-Z -- Continued

- 391.S7 Spodumene  
 391.S73 Stannite  
 391.S75 Staurolite  
 391.S77 Stenonite  
 391.S8 Stichtite  
 391.T2 Talc  
 391.T3 Tephroite  
 391.T4 Tetradymite  
 391.T6 Topaz  
 391.T7 Tourmaline  
 391.T8 Trona  
 391.T85 Tugtupite  
 391.U65 Uraninite  
 Uranothallite, see QE391.L5  
 391.V35 Vanadinite  
 391.V5 Vermiculite  
 391.V55 Vesuvianite  
 391.V6 Villiaumite  
 391.V64 Vivianite  
 391.W3 Wagnerite  
 391.W6 Wolframite  
 391.W66 Wollastonite  
 391.Z5 Zeolites  
 391.Z7 Zircon  
 391.Z8 Zoisite

## Precious stones

- Cf. NK7650 +, Art industries  
 Cf. TN980 +, Mining  
 Cf. TS747 +, Jewelry manufacture  
 392 General works, treatises, and textbooks  
 392.2 Juvenile works  
 392.5.A-Z By region or country, A-Z  
 393 Diamonds  
 394.A-Z Other precious stones, A-Z  
 394.A4 Amethysts  
 394.E5 Emeralds  
 394.J3 Jade  
 394.J46 Jet  
 394.O7 Opals  
 394.R8 Rubies  
 394.S3 Sapphires  
 394.T8 Turquoise  
 396 Leucoxene  
 397 Rock-forming minerals  
 Meteorites, see QB754.8 +  
 399 Tektites  
 For fluorescent minerals, see QE364.2.F5  
 399.2 Miscellany and curiosa

## Petrology

Cf. TN950 +, Building stones



- Petrology -- Continued
- 420 Periodicals, societies, congresses, serial collections, yearbooks
- 421 Collected works (nonserial)
- 423 Dictionaries and encyclopedias
- 425 Nomenclature, terminology, notation, abbreviations
- 425.4 Classification
- History
- 427.A1 General works
- 427.A2-Z By region or country, A-Z
- 430 Early works through 1800
- General works, treatises, and textbooks
- 431 1801-1969
- 431.2 1970-
- 431.5 Special aspects of the subject as a whole
- 431.6.A-Z Special topics, A-Z
- 431.6.A25 Acoustic properties
- 431.6.E4 Electric properties
- 431.6.M3 Magnetic properties
- 431.6.M4 Mechanical properties
- 431.6.O7 Ores
- 431.6.P4 Petrogenesis
- 431.6.P5 Physical properties
- 431.6.P6 Porosity
- 431.6.T45 Thermal properties
- 431.6.W35 Water-rock interaction
- 432 Popular works
- 432.2 Juvenile works
- 432.5 Addresses, essays, lectures
- 433 Laboratory manuals
- 433.5 Instruments and apparatus
- 433.6 Collection and preservation
- 433.7 Data processing
- 433.8 Handbooks, tables, formulas, etc.
- 434 Microscopic analysis of rocks. Thin sections
- 435 X-ray petrology
- 438 Chemical analysis of rocks
- 440 Petrofabric analysis
- Including petrofabric diagrams
- Museums. Exhibitions
- 442.A1 General works
- 442.A2-Z By region or country, A-Z
- Apply table at QE51.A2-Z
- Geographical divisions
- North America
- 443 General works
- United States
- 444 General works
- 445.A-Z By region or state, A-Z
- Canada
- 445.5 General works
- 446.A-Z By region or province, A-Z
- Mexico

## Petrology

## Geographical divisions

## North America

## Mexico -- Continued

446.5  
446.6.A-Z

General works

By region or state, A-Z

## Central America

447.A1  
447.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## West Indies. Caribbean Area

448.A1  
448.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## South America

449.A1  
449.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Europe

451.A1  
451.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Asia

452.A1  
452.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Africa

453.A1  
453.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Australia

453.5  
454.A-Z

General works

By region, state, or territory, A-Z

## New Zealand

454.5  
454.6.A-Z

General works

By region or statistical area, A-Z

## Pacific islands

455.A1  
455.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Arctic regions

456.A1  
456.A3-Z

General works

By region, country, or island, A-Z

Offshore islands generally class with adjacent mainland

## Antarctica

## Petrology

## Geographical divisions

## Antarctica -- Continued

456.5.A1

## General works

456.5.A3-Z

## By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Igneous rocks, volcanic ash, tuff, etc.

461

## General works

462.A-Z

## Special, A-Z

462.A37

## Albitite

462.A4

## Alkalic igneous rocks

462.A5

## Andesite

462.A55

## Anorthosite

462.A63

## Aplite

462.B3

## Basalt

462.B65

## Boninite

462.C36

## Carbonatites

462.C5

## Charnockite

462.D5

## Diabase

462.D56

## Diorite

462.F4

## Fenite

462.G3

## Gabbro

462.G7

## Granite

462.G75

## Granodiorite

462.G77

## Greenstone

462.I35

## Ignimbrite

462.K44

## Keratophyre

462.K5

## Kimberlite

462.K66

## Komatiite

462.L35

## Lamproite

462.L37

## Latite

462.L48

## Leucitite

462.M6

## Monzonite

462.N4

## Nepheline syenite

462.O28

## Obsidian

462.O43

## Olivinite

462.O6

## Ophiolites

462.O73

## Orangeite

462.P4

## Pegmatites

462.P45

## Peridotite

462.P6

## Porphyry

462.P7

## Propylite

462.R4

## Rhyolite

## Serpentinite, see QE475.S47

462.S65

## Spilites

462.S95

## Syenite

462.T74

## Trondhjemite

462.U4

## Ultrabasic rocks

462.V64

## Volcanite

## Sedimentary rocks. Sedimentology

For sedimentation, see QE571 +

471

## General works

## Petrology

## Sedimentary rocks. Sedimentology -- Continued

- |            |   |
|------------|---|
| 471.15.A-Z | Special, A-Z                            |
| 471.15.A68 | Arenites                                |
| 471.15.A7  | Arkose                                  |
| 471.15.B32 | Bauxite                                 |
| 471.15.B34 | Beachrock                               |
| 471.15.B4  | Bentonite                               |
| 471.15.B7  | Breccia                                 |
| 471.15.C27 | Calcretes                               |
| 471.15.C3  | Carbonate rocks                         |
| 471.15.C4  | Chert                                   |
| 471.15.C58 | Concretions                             |
| 471.15.C6  | Conglomerate                            |
| 471.15.D6  | Dolomite                                |
| 471.15.E8  | Evaporites                              |
| 471.15.F47 | Flint                                   |
| 471.15.F5  | Flysch                                  |
| 471.15.G4  | Geodes                                  |
| 471.15.L5  | Limestone                               |
| 471.15.M44 | Melanges                                |
| 471.15.M83 | Mudstone                                |
| 471.15.O5  | Oolite                                  |
| 471.15.P48 | Phosphate rock, see QE471.15.P48        |
| 471.15.S2  | Phosphorite. Phosphate rock             |
| 471.15.S25 | Salt                                    |
| 471.15.S5  | Sandstone                               |
| 471.15.S54 | Shale                                   |
| 471.15.T5  | Siltstone                               |
| 471.15.T64 | Tillite                                 |
| 471.15.T73 | Tonsteins                               |
| 471.15.T8  | Travertine                              |
| 471.2      | Turbidites                              |
| 471.3      | Sediments (Unconsolidated)              |
| 472        | Clay                                    |
| 473        | Sedimentary structures                  |
|            | Paleopedology                           |
|            | Metamorphic rocks. Metamorphism         |
| 475.A2     | General works, treatises, and textbooks |
| 475.A3-Z   | Special, A-Z                            |
| 475.A4     | Amphibolite                             |
| 475.E25    | Eclogite                                |
| 475.G55    | Gneiss                                  |
| 475.G7     | Granulite                               |
| 475.J27    | Jadeite                                 |
| 475.J3     | Jasperoid                               |
| 475.L57    | Listwanite                              |
| 475.M3     | Marble                                  |
| 475.M45    | Metabasite                              |
| 475.M5     | Migmatite                               |
| 475.M95    | Mylonite                                |
| 475.P47    | Phyllite                                |
| 475.Q3     | Quartzite                               |

- Petrology
  - Metamorphic rocks. Metamorphism
    - Special, A-Z -- Continued
      - 475.S3 Schist
      - 475.S39 Schungite
      - 475.S47 Serpentinite
      - 475.S6 Soapstone
    - 495 Laterite
    - 496 Sapolites
    - 499 Miscellany and curiosa
  - Dynamic and structural geology
    - Physical and tectonic
      - 500 Periodicals, societies, congresses, serial collections, yearbooks
      - 500.5 History
      - 501 General works, treatises, and textbooks
        - Including physical history of the earth
      - 501.2 Popular works
      - 501.25 Juvenile works
      - 501.3 Special aspects of the subject as a whole
      - 501.4.A-Z Special topics, A-Z
        - Isotope geology, see QE501.4.N9
        - 501.4.M38 Mathematics
        - 501.4.M6 Mohole project
        - 501.4.N9 Nuclear geology. Isotope geology
        - 501.4.P3 Paleogeography
        - 501.4.P35 Paleomagnetism
        - 501.4.P6 Polar wandering
        - 501.4.R45 Remote sensing
        - 501.4.U6 Upper mantle project
      - 505 Addresses, essays, lectures
      - 505.5 Study and teaching. Research
      - 506 Geological cosmogony
      - 507 Deluge, etc.
      - 508 Geological time. Age of the earth
        - Including age determination, radioactive dating
      - 509 Interior of the earth
        - Temperature, internal structure
    - 511 Earth's crust. Isostasy
      - Cf. QB331, Gravity determinations
    - 511.2 Island arcs
    - Plate tectonics
      - 511.4 General works
      - 511.42 Neotectonics
      - 511.44 Morphotectonics
      - 511.46 Subduction zones
    - 511.5 Continental drift
      - Including Gondwana, Pangaea
    - 511.7 Sea-floor spreading
    - 513 Salt tectonics
  - Geochemistry
    - Cf. QH343.7+, Biogeochemistry

- Dynamic and structural geology
- Geochemistry -- Continued
- 514 Periodicals, societies, congresses, serial collections, yearbooks
- Biography
- 514.6 Collective
- 514.62.A-Z Individual, A-Z
- 515 General works, treatises, and textbooks
- 515.5.A-Z Special topics, A-Z
- 515.5.D37 Data processing
- 515.5.G43 Geochemical modeling
- 515.5.G45 Geochemical self-organization
- 515.5.R45 Remote sensing
- 515.5.T46 Thermodynamics
- 516.A-Z Special elements and groups of elements, A-Z (Table Q1 modified)
- 516.A35 Alkali metals
- 516.H3 Halogens
- 516.R15 Radioactive substances
- 516.R2 Rare earth metals
- 516.R23 Rare gases
- 516.T85 Trace elements
- 516.3 Analytical geochemistry
- 516.4 Environmental geochemistry
- Nuclear geochemistry, see QE501.4.N9
- 516.5 Organic geochemistry
- Dynamic geology
- 517 Periodicals, societies, congresses, serial collections, yearbooks
- 517.5 General works, treatises, and textbooks
- Volcanoes and earthquakes
- 521 General works, treatises, and textbooks
- 521.2 Popular works
- 521.3 Juvenile works
- Volcanoes
- 521.5 Periodicals, societies, congresses, serial collections, yearbooks
- 522 General works, treatises, and textbooks
- 523.A-Z Individual volcanoes, A-Z
- e.g.
- 523.P8 Popocatepetl
- 524 Western Hemisphere
- Including Hawaii
- 527 Eastern Hemisphere
- 527.5 Prediction of volcanic activity
- 527.6 Volcanic hazard analysis. Safety measures
- For hazard analysis or safety measures in specific geographic regions see QE523-QE527
- 528 Geysers, hot springs, etc.
- 529 Miscellany and curiosa

- Dynamic and structural geology
- Volcanoes and earthquakes -- Continued
- Earthquakes. Seismology
  - Cf. TC181, Earthquakes and hydraulic structures
  - Cf. TC542.5, Earthquakes and dams
  - Cf. TF539, Damage to railroads
  - Cf. TH1095, Earthquakes and building
- 531 Periodicals, societies, congresses, serial collections, yearbooks
- 532 Observations. By name of issuing observatory, A-Z
  - Including serial collections issued by individual observatories
- 533 Early works through 1800
- 534 General works, treatises, and textbooks
  - 1801-1969
  - 534.2 1970-
- Special
  - Western Hemisphere. America
    - 535 General works
    - 535.2.A-Z By region or country, A-Z
  - Eastern Hemisphere. Europe, Africa
    - 536 General works
    - 536.2.A-Z By region or country, A-Z
  - Eastern Hemisphere. Asia, Australia
    - 537 General works
    - 537.2.A-Z By region or country, A-Z
  - Antarctica
- 538.5 Seismic waves. Elastic waves
- 538.8 Earthquake prediction
- 539 Special aspects of the subject as a whole
- 539.2.A-Z Special topics, A-Z
  - 539.2.A4 Aftershocks
  - 539.2.D36 Data processing
  - 539.2.I46 Hazard analysis, see QE539.2.S34
  - 539.2.I5 Induced seismicity
  - 539.2.M5 Intensity
  - 539.2.P34 Microseisms
  - 539.2.P4 Paleoseismology
  - 539.2.R45 Periodicity
  - 539.2.S34 Remote sensing
  - Safety measures. Hazard analysis
    - For safety measures or hazard analysis in specific geographic regions, see QE535-QE538
- 539.2.S4 Seismic models
- 539.2.S43 Seismic traveltime inversion
- Observatories. Seismic networks
  - 540.A2 General works

- Dynamic and structural geology  
 Volcanoes and earthquakes  
 Earthquakes. Seismology  
 Observatories -- Continued  
 540.A5-Z By region or country, A-Z  
     *Under each country:*  
     .x General works  
     .x2A-.x2Z Individual observatories. By name,  
                   A-Z
- 541 Instruments. Seismometry  
 Including tables, calculations, siemograms, etc.
- 545 Volcanic gases and vapors  
 Coral islands and reefs. Atolls  
 Cf. GB461+, Geomorphology
- 565 General works  
 566.A-Z Individual, A-Z  
     e.g.  
 566.G7 Great Barrier Reef (Qld.)
- 570 Weathering  
 Sedimentation  
 Including erosion and deposition  
 For sedimentary rocks and sedimentology, see QE471+
- 571 General works  
 573 Cryopedology  
 Glacial erosion  
     Cf. GB581+, Glacial landforms  
     Cf. QE697+, Pleistocene
- 575 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 576 General works, treatises, and textbooks  
 578 Moraines, eskers, kames  
 579 Drift. Loess  
 581 Aqueous erosion  
     Cf. S622+, Agriculture
- 597 Aerial erosion  
 Earth movements. Mass movements  
     For descriptive works, disasters, etc., see DA-F
- 598 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 598.2 General works, treatises, and textbooks  
 598.5.A-Z By region or country, A-Z
- 599.A1 Landslides. Rockslides  
 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 599.A2 General works, treatises, and textbooks  
 599.A5-Z By region or country, A-Z  
 599.2 Landslide hazard analysis
- Subsidences
- 600 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 600.2 General works, treatises, and textbooks  
 600.3.A-Z By region or country, A-Z
- Structural geology



- Dynamic and structural geology
  - Structural geology -- Continued
    - 601 General works, treatises, and textbooks
    - 601.2 Special aspects of the subject as a whole
    - 601.3.A-Z Special topics, A-Z
    - 601.3.S83 Stereographic projection
    - 601.8 Problems, exercises, examinations
    - 602 Stratification
    - 604 Deformation
    - 605 Joints and cleavages
    - Faults and folds
      - 606 General works, treatises, and textbooks
      - 606.5.A-Z By region or country, A-Z
    - Geosynclines
      - 607 General works, treatises, and textbooks
      - 607.5.A-Z By region or country, A-Z
    - Metamorphism
      - (608) see QE475
    - Veins, dikes, necks, bosses, laccoliths, and other intrusive bodies
      - Cf. TN263, Ore deposits
  - 611 General works, treatises, and textbooks
  - 611.5.A-Z By region or country, A-Z
  - Cryptoexplosion structures
    - 613 General works, treatises, and textbooks
    - 613.5.A-Z By region or country, A-Z
  - Mountain building. Orogeny
    - 621 General works
    - 621.5.A-Z By region or country, A-Z
  - 625 Effects of plants, animals, and man in geology
    - Cf. QR103, Geomicrobiology
  - Geographical divisions
    - North America
      - 626 General works
      - United States
        - 627 General works
        - 627.5.A-Z By region or state, A-Z
      - Canada
        - 628 General works
        - 628.5.A-629.5.Z By region, province, or territory, A-Z
      - Mexico
        - 629 General works
        - 629.5.A-Z By region or state, A-Z
    - Central America
      - 630.A1 General works
      - 630.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - West Indies. Caribbean Area
      - 631.A1 General works
      - 631.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland

## Dynamic and structural geology

## Geographical divisions -- Continued

## South America

632.A1

General works

632.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Europe

633.A1

General works

633.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Asia

634.A1

General works

634.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Africa

635.A1

General works

635.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Australia

636

General works

636.5.A-Z

By region, state, or territory, A-Z

## New Zealand

637

General works

637.5.A-Z

By region or statistical area, A-Z

## Pacific islands

638.A1

General works

638.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Arctic regions

639.A1

General works

639.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Antarctica

639.5.A1

General works

639.5.A3-Z

By region, country, or island, A-Z

Offshore islands generally class with adjacent  
mainland

## Stratigraphy

Prefer stratigraphic to geographical classification

For historical geology, see QE28.3

640

Periodicals, societies, congresses, serial  
collections, yearbooks

645

Nomenclature, terminology, notation, abbreviations

651

General works, treatises, and textbooks

651.5

Cyclostratigraphy

652

Data processing

Stratigraphic correlation

## Stratigraphy

## Stratigraphic correlation -- Continued

- 652.5           General works
- 652.55.A-Z    By region or country, A-Z
- Precambrian
  - 653           General works
  - 653.3        Archaean
  - 653.5        Proterozoic
- Paleozoic
  - 654           General works
  - (655)        Algonkian. Huronian. Precambrian in general  
              see QE653
  - 656           Cambrian
  - 660           Ordovician
  - Silurian
    - 661           General works
    - (662)        Lower (Ordovician)  
              see QE660
    - (663)        Upper (Silurian)  
              see QE661
  - 665           Devonian
  - Carboniferous
    - 671           General works
    - 672           Mississippian
    - 673           Pennsylvanian  
              Cf. TN799.9+, Coal
  - 674           Permian
- Mesozoic
  - 675           General works
  - Triassic
    - 676           General works
    - 677           Lower
    - 678           Middle
    - 679           Upper
  - Jurassic
    - 681           General works
    - 682           Lower
    - 683           Middle
    - 684           Upper
  - Cretaceous
    - 685           General works
    - 686           Lower
    - 687           Middle
    - 688           Upper
- Cretaceous-Tertiary boundary
- Cenozoic
  - 690           General works
  - Tertiary
    - 691           General works
    - Paleogene
      - 691.5        General works
      - 692           Paleocene
      - 692.2        Eocene

- Stratigraphy
  - Cenozoic
    - Tertiary
      - Paleogene -- Continued
        - 692.8 Eocene-Oligocene boundary
        - 693 Oligocene
        - Neogene
          - 693.5 General works
          - 694 Miocene
          - 695 Pliocene
          - 695.5 Pliocene-Pleistocene boundary
        - Quaternary
          - 696 General works
          - Pleistocene. Glacial epoch
            - 697 General works
            - 698 Cause of the glacial epoch
            - 699 Holocene, Recent
          - Geological climate, see QE698
          - Paleoclimatology, see QC884 +
  - Paleontology
    - 701 Periodicals, societies, congresses, serial collections, yearbooks
    - 702 Collected works (nonserial)
    - 703 Dictionaries and encyclopedias
    - History
      - 705.A1 General works
      - 705.A2-Z By region or country, A-Z
    - Biography
      - 707.A2 Collective
        - Including directories
      - 707.A3-Z Individual, A-Z
        - e.g.
          - 707.T4 Teilhard de Chardin, Pierre
          - 707.Z8 Zittel, K.A.
    - Early works
      - 709 Through 1790
      - 710 1791-1830
    - General works, treatises, and textbooks
      - Including stratigraphic paleontology
        - 711 1831-1969
        - 711.2 1970-
    - 713 Comprehensive systematic works
      - Including both zoological and botanical works
    - 714 Pictorial works and atlases
    - 714.3 Popular works
    - 714.5 Juvenile works
    - 714.7 Paleontology as a profession. Vocational guidance
    - 715 Study and teaching
    - Museums. Exhibitions
      - Class catalogs of special subjects with the subject, e.g. British Museum catalog of fossil fishes in QE851
  - 716.A1 General works

- Paleontology
- 716.A2-Z Museums. Exhibitions -- Continued
    - By region or country, A-Z
    - Apply table at QE51.A2-Z
  - 718 Collection and preservation
  - Micropaleontology
    - For fossil biomolecules, see QP517.F66
  - 719 General works
  - 719.5 Prokaryotes. Bacteria
  - 719.6 Protista
    - Cf. QE771+, Protozoa
    - Cf. QE955, Algae
  - 720 Paleoecology
  - 720.5 Ichnology. Trace fossils
  - 721 Special aspects of the subject as a whole
  - 721.2.A-Z Special topics, A-Z
    - 721.2.E85 Evolutionary paleobiology
    - 721.2.E97 Extinction
    - 721.2.F6 Fossilization. Taphonomy
    - 721.2.M63 Models and modelmaking
    - 721.2.P24 Paleobiogeography
    - 721.2.P3 Paleotemperatures
    - 721.2.S7 Statistical methods
    - Taphonomy, see QE721.2.F6
  - 721.2.V3 Variation
  - 723 Addresses, essays, lectures
  - Stratigraphic divisions (General and zoological)
    - Corresponding classes for stratigraphic geology in QE653 +
    - Precambrian
      - 724 General works
      - 724.5 Proterozoic
    - Paleozoic
      - 725 General works
      - 726 Cambrian
      - 726.2 Ordovician
      - 727 Silurian
      - 728 Devonian
      - Carboniferous
        - 729 General works
        - 729.2 Mississippian
        - 729.3 Pennsylvanian
      - 730 Permian
    - Mesozoic
      - 731 General works
      - 732 Triassic
      - 733 Jurassic
      - 734 Cretaceous
    - Cenozoic
      - 735 General works
      - Tertiary
        - 736 General works
        - Paleogene

- Paleontology  
 Stratigraphic divisions (General and zoological)  
 Cenozoic  
 Tertiary  
 Paleogene -- Continued  
 736.5 General works  
 736.8 Paleocene  
 737 Eocene  
 738 Oligocene  
 Neogene  
 738.5 General works  
 739 Miocene  
 740 Pliocene  
 Quaternary  
 741 General works  
 741.2 Pleistocene  
 741.3 Holocene, Recent  
 742 Amber fauna and flora  
 Geographical divisions (General and zoological)  
 Prefer the stratigraphic divisions above to  
 geographical divisions  
 743 General works  
 743.5 Ocean bottom  
 744 Arctic regions  
 North America  
 745 General works  
 United States  
 746 General works  
 747.A-Z By region or state, A-Z  
 Canada  
 748.A1 General works  
 748.A3-Z By region or province, A-Z  
 Offshore islands generally class with adjacent  
 mainland  
 Mexico  
 749.A1 General works  
 749.A3-Z By region or state, A-Z  
 Offshore islands generally class with adjacent  
 mainland  
 West Indies and Bermuda  
 750.A1 General works  
 750.A3-Z By region, country, or island, A-Z  
 Offshore islands generally class with adjacent  
 mainland  
 Central America  
 751.A1 General works  
 751.A3-Z By region, country, or island, A-Z  
 Offshore islands generally class with adjacent  
 mainland  
 South America  
 752.A1 General works

- Paleontology
  - Geographical divisions (General and zoological)
    - South America -- Continued
      - 752.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - Europe
      - 753 General works
      - 754 Great Britain
      - 755.A-Z Other regions or countries, A-Z
    - Asia
      - 756.A1 General works
      - 756.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - Africa
      - 757.A1 General works
      - 757.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - Australia
      - 758.A1 General works
      - 758.A3-Z By region, state, or territory, A-Z
        - Offshore islands generally class with adjacent mainland
    - New Zealand
      - 758.5
    - Pacific islands, A-Z
      - 759.A-Z
    - Arctic regions, see QE744
    - Antarctica
      - 760
  - Paleozoology
    - 760.8 Periodicals, societies, congresses, serial collections, yearbooks
    - 761 General works, treatises, and textbooks
    - 763 Popular works
    - 765 Juvenile works
    - 767 Plankton
      - For geographical divisions, see QE743 +
      - For stratigraphic divisions, see QE724 +
  - Invertebrates
    - 770 General works, treatises, and textbooks
    - Protozoa
      - 771 General works, treatises, and textbooks
      - 772 Foraminifera
      - 773 Radiolaria
      - 774.A-Z Other Protozoa, A-Z
        - (774.D5) Dinoflagellates
          - see QE955
        - 774.F5 Flagellata. Mastigophora
        - 774.P6 Polycystida
        - 774.T5 Thecamoebae. Testacea
        - 774.T55 Tintinnida
        - 775 Porifera (Sponges)
        - Coelenterata

## Paleozoology

## Invertebrates

## Coelenterata -- Continued

- 777 General works, treatises, and textbooks  
 778 Anthozoa (Corals)  
 779 Hydrozoa. Stromatoporoidea  
 For Graptolithina, see QE840.5  
 780 Scyphozoa  
 Including Scyphomedusae and Conulata

## Echinodermata

- 781 General works, treatises, and textbooks  
 782 Crinozoa. Crinoidea  
 783.A-Z Other divisions, A-Z  
 783.A7 Asteroidea (True starfish)  
 783.B6 Blastoidea  
 783.C9 Cystoidea  
 783.D5 Diploporita  
 783.E2 Echinoidea  
 783.E3 Edrioasteroidea  
 783.H7 Holothurioidea  
 783.O6 Ophiuroidea  
 783.P3 Paracrinoidea  
 783.S8 Stelleroidea  
 783.S89 Stylophora  
 791 Worms and other vermiform invertebrates

## Brachiopoda

- 796 General works, treatises, and textbooks  
 797.A-Z Systematic divisions, A-Z  
 797.A65 Articulata  
 797.A69 Athyrididae  
 797.A7 Atrypidae  
 797.C95 Cyrtinidae  
 797.D3 Delthyrididae  
 797.D5 Dielasmataidae  
 797.D6 Discinidae  
 797.I5 Inarticulata  
 797.K5 Kingenidae  
 797.L7 Lingulidae  
 797.O2 Obolidae  
 797.O7 Orthida  
 797.O75 Orthidae  
 797.P3 Paterinidae  
 797.P39 Pentamerida  
 797.P4 Pentameridae  
 797.P5 Playtstrophinae  
 797.P9 Productidae  
 797.R5 Rhynchonellida  
 797.S4 Septirhynchiidae  
 797.S7 Spiriferidae  
 797.S8 Stringocephalidae  
 797.S89 Strophomenida  
 797.S9 Strophomenidae  
 797.T29 Terebratulida



- Paleozoology
  - Invertebrates
    - Brachiopoda
      - Systematic divisions, A-Z -- Continued
        - (797.T3) Terebratulidae
          - see QE797.T29
        - 797.T5 Thecidellinidae
        - 797.T8 Trimerellidae
        - 797.Z4 Zeilleriidae
      - Bryozoa. Polyzoa
        - 798 General works, treatises, and textbooks
        - 799.A-Z Systematic divisions, A-Z
          - 799.C5 Cheilostomata
          - 799.C7 Cryptostomata
          - 799.C8 Ctenostomata
          - 799.C9 Cyclostomata
          - 799.E95 Expletocystida
          - 799.G95 Gymnolaemata
          - 799.M6 Monticuliporidae
          - 799.T7 Trepostomata
      - Mollusca
        - 801 General works, treatises, and textbooks
        - 805 Monoplacophora. Amphineura. Aplacophora.
          - Polyplacophora
        - Cephalopoda
          - 806 General works, treatises, and textbooks
          - 807.A-Z Systematic divisions, A-Z
            - 807.A25 Actinoceratidae
            - 807.A5 Ammonoidea
            - 807.B4 Belemnitida
            - 807.C65 Clymeniida
            - 807.C7 Coleoidea
            - 807.D5 Dibranchiata
            - Ecdyceras, see QE807.H4
            - 807.E4 Ellesmeroceratidae
            - 807.E5 Endoceratoidea
            - 807.G56 Goniatitidae
            - 807.H4 Hebetoceratidae
            - 807.L3 Lamellorthoceratidae
            - 807.L7 Liparoceratidae
            - 807.L98 Lytoceratidae
            - 807.N4 Nautiloidea
            - 807.O8 Orthoceratidae
            - 807.P69 Placenticeratidae
            - 807.S3 Salterellidae
            - 807.S4 Sepiida
            - 807.W8 Wutinoceratidae
      - Gastropoda
        - 808 General works, treatises, and textbooks
        - 809.A-Z Systematic divisions, A-Z
          - 809.A18 Actaeonellidae
          - 809.A2 Actaeonidae
          - 809.A72 Archaeogastropoda

## Paleozoology

## Invertebrates

## Mollusca

## Gastropoda

## Systematic divisions, A-Z -- Continued

- |           |   |
|-----------|---|
| 809.B8    | Buccinidae                              |
| 809.C4    | Ceratopeidae                            |
| 809.C48   | Columbellidae                           |
| 809.C52   | Conidae                                 |
| 809.C9    | Cypraeidae                              |
| 809.E55   | Eotomariidae                            |
| 809.E9    | Euomphalidae                            |
| 809.F3    | Fasciolariidae                          |
| 809.M25   | Macluritidae                            |
| 809.M4    | Mesogastropoda                          |
| 809.M8    | Murchisoniata                           |
| 809.M85   | Muricidae                               |
| 809.N3    | Nassariidae                             |
| 809.N32   | Naticidae                               |
| 809.N45   | Neritidae                               |
| 809.O44   | Olividae                                |
| 809.O6    | Opisthobranchia                         |
| 809.P5    | Platyceratidae                          |
| 809.P7    | Prosobranchia                           |
| 809.P8    | Pteropoda                               |
| 809.P9    | Pulmonata                               |
| 809.P95   | Pyramidellidae                          |
| 809.T5    | Thaididae                               |
| 809.T88   | Turridae                                |
| 809.T9    | Turritellidae                           |
| 809.V2    | Valencienniidae                         |
| 809.V3    | Vasidae                                 |
| 809.V7    | Volutidae                               |
| 809.Z9    | Zonitidae                               |
| 811       | Bivalvia. Lamellibranchia. Pelecypoda   |
| 812.A-Z   | General works, treatises, and textbooks |
| 812.A8    | Systematic divisions, A-Z               |
| (812.A84) | Arcidae                                 |
|           | Astartidae                              |
|           | see QE812.V45                           |
| 812.B83   | Buchiidae                               |
| 812.C3    | Cardiidae                               |
| 812.C35   | Carditidae                              |
| 812.C5    | Chondrodontidae                         |
| 812.C6    | Conocardiidae                           |
|           | Cypricardiacea, see QE812.T34           |
| 812.D5    | Diceratidae                             |
| 812.D7    | Dreissenidae                            |
| 812.G7    | Grammysiidae                            |
| 812.G78   | Gryphaeidae                             |
| 812.H34   | Halobiidae                              |
| 812.H57   | Hippuritidae                            |
| 812.I5    | Inoceramidae                            |

- Paleozoology
  - Invertebrates
    - Mollusca
      - Bilvalvia. Lamellibranchia. Pelecypoda
        - Systematic divisions, A-Z -- Continued
          - Leptonacea, see QE812.V45
          - Macluridae
          - Megalodontacea
          - Monotidae
          - Myalinidae
          - Mytilidae
          - Noetiidae
          - Nucloidae
          - Ostreidae
          - Ostreoida
          - Pectinacea
          - Pectinidae
          - Pholadidae
          - Pholadomyoida
          - Praeheterodonta
          - Pterinidae
          - Radiolitidae
          - Rudistae
          - Solemyidae
          - Tancrediidae
          - Teleodesmacea
          - Tellinidae
          - Teredinidae
          - Trigoniidae
            - see QE812.T74
          - Trigonioida
          - Unionidae
          - Veneridae
          - Veneroida
      - Scaphopoda
      - Rostroconchia
    - Arthropoda
      - 815
        - General works, treatises, and textbooks
        - Crustacea. Mandibulata
          - General works, treatises, and textbooks
          - Systematic divisions, A-Z
            - Amphipoda
            - Arthrostraca
            - Branchiopoda
            - Cirripedia
            - Conchostraca
            - Copepoda
            - Decapoda
            - Entomostraca
            - Isopoda
            - Leptostraca
            - Malacostraca
            - Ostracoda
      - 816
        - 817.A-Z
          - 817.A6
          - 817.A7
          - 817.B7
          - 817.C5
          - 817.C6
          - 817.C7
          - 817.D3
          - 817.E5
          - 817.I8
          - 817.L5
          - 817.M3
          - 817.O8

## Paleozoology

## Invertebrates

## Arthropoda

## Crustacea. Mandibulata

## Systematic divisions, A-Z -- Continued

Phyllopoda, see QE817.B7

Schizopoda

Stomatopoda

## Protarthropoda. Trilobitomorpha

General works, treatises, and textbooks

Systematic divisions, A-Z

Agnostida

Corynexochida

Marrellidae

Pentastomida

Phacopida

Proëtidae

Ptychopariida

Redlichiida

Tardigrada

## Chelicerata. Merostomata. Arachnida

General works, treatises, and textbooks

Systematic divisions, A-Z

Acarina (Acari)

Araneida (Araneae)

Chernetidae (Pseudoscorpiones)

Eurypterida

Opiliones

Pedipalpi

Phalangida

see QE826.O63

Scorpionida

Solifugae

Xiphosurida

## Myriapoda

General works, treatises, and textbooks

Systematic divisions, A-Z

Chilopoda

Diplopoda

## Hexapoda. Insects

General works, treatises, and textbooks

Systematic divisions, A-Z

Anoplura

Blattaria

Coleoptera

Collembola

Dermaptera

Diptera

Embioptera

Ephemeroptera

Hemiptera

Homoptera

Hymenoptera

817.S3

817.S8

821

823.A-Z

823.A35

823.C6

823.M3

823.P4

823.P5

823.P76

823.P79

823.R4

823.T2

825

826.A-Z

826.A2

826.A6

826.C5

826.E8

826.O63

826.P3

(826.P5)

826.S4

826.S6

826.X5

828

829.A-Z

829.C5

829.D5

831

832.A-Z

832.A55

832.B55

832.C6

832.C63

832.D47

832.D6

832.E52

832.E65

832.H4

832.H65

832.H9

- Paleozoology
    - Invertebrates
      - Arthropoda
        - Hexapoda. Insects
          - Systematic divisions, A-Z -- Continued
            - Isoptera
            - Lepidoptera
            - Mallophaga
            - Mecoptera
            - Neuroptera
            - Orthoptera
            - Phasmatoptera
            - Plecoptera
            - Psocoptera
            - Siphonaptera
            - Strepsiptera
            - Thysanoptera (Thrips)
            - Trichoptera
  - Chordata
    - Cephalochordata. Tunicata. Hemichordata.
      - Enteropneusta. Pterobranchia. Graptolithina
    - Vertebrates
      - General works, treatises, and textbooks
      - Juvenile works
      - Fossil footprints
      - Fishes
        - General works, treatises, and textbooks
        - Systematic divisions, A-Z
          - Acipenseriformes
          - Agnatha
          - Amiiformes
          - Anaspida
          - Arthrodira
          - Beryciformes
          - Chimaeriformes
          - Chondrichthyes
          - Clupeiformes
          - Coelacanthiformes
          - Coelolepida
          - Crossopterygii
          - Crypriniformes
          - Dipnoi
          - Drepanaspididae
          - Edestidae
          - Elasmobranchii
            - see QE852.C52
          - Elopiiformes
          - Gadiformes
          - Ganoidei, see QE852.S4
          - Gonorhynchiformes
          - Heterostraci
          - Holocephali
            - see QE852.C48
- 832.I8  
832.L5  
832.M34  
832.M43  
832.N5  
832.O7  
832.P45  
832.P55  
832.P83  
832.S47  
832.S87  
832.T5  
832.T8
- 840.5
- 841  
842  
845
- 851  
852.A-Z  
852.A25  
852.A33  
852.A4  
852.A5  
852.A7  
852.B47  
852.C48  
852.C52  
852.C55  
852.C58  
852.C6  
852.C7  
852.C95  
852.D5  
852.D7  
852.E55  
(852.E6)  
  
852.E65  
852.G26  
  
852.G65  
852.H4  
(852.H7)

## Paleozoology

## Chordata

## Vertebrates

## Fishes

## Systematic divisions, A-Z -- Continued

- |          |   |
|----------|---|
| 852.I35  | Ichthyodectiformes                      |
| 852.L45  | Leptolepiformes                         |
| 852.O45  | Osteichthyes                            |
| 852.O5   | Osteostraci                             |
| 852.P3   | Palaeonisciformes                       |
| 852.P4   | Perciformes                             |
| 852.P45  | Pholidophoriformes                      |
| 852.P5   | Placodermi                              |
|          | Plagiostomi, see QE852.C52              |
| 852.P8   | Ptycholepiformes                        |
| 852.P9   | Pycnodontiformes                        |
| 852.R4   | Redfieldiiformes                        |
| 852.S2   | Salmoniformes                           |
| 852.S4   | Semionotiformes                         |
| (852.T2) | Teleostei                               |
|          | see QE852.O45                           |
| 852.T48  | Tetraodontiformes                       |
| 853      | Fossil otoliths                         |
|          | Reptiles                                |
| 861      | General works, treatises, and textbooks |
| 862.A-Z  | Systematic divisions, A-Z               |
| 862.C5   | Chelonia. Testudinata                   |
| 862.C7   | Cotylosauria                            |
| 862.C8   | Crocodylia                              |
| (862.D4) | Dicynodontia                            |
|          | QE862.T5                                |
| 862.D5   | Dinosaurs                               |
| 862.E9   | Eunotosauridae                          |
| 862.I2   | Ichthyosauria                           |
| 862.L2   | Lacertilia                              |
| 862.N7   | Nothosauria                             |
| 862.O6   | Ophidia. Serpentes                      |
| 862.O65  | Ornithischia                            |
|          | Ornithosauria, see QE862.P7             |
| 862.P3   | Pelycosauria                            |
| 862.P35  | Phytosauria                             |
| 862.P37  | Placodontia                             |
| 862.P4   | Plesiosauria                            |
| 862.P7   | Pterosauria                             |
|          | Pythonomorpha, see QE862.L2             |
| 862.R5   | Rhynchocephalia                         |
| 862.S3   | Saurischia                              |
| 862.S33  | Sauropterygia                           |
| (862.S8) | Synapsida                               |
|          | see QE861                               |
| 862.T4   | Thalattosauria                          |
| 862.T47  | Thecodontia                             |
| 862.T5   | Therapsida                              |

## . Paleozoology

## Chordata

## Vertebrates -- Continued

## Amphibians. Batrachia

- 867  
868.A-Z  
868.A46  
868.A48  
868.A5  
868.A6  
868.B7  
868.C2  
868.D5  
  
868.L3  
868.M53  
868.P4  
868.P5  
868.R5
- General works, treatises, and textbooks  
Systematic divisions, A-Z  
Aistopoda  
Anthracosauria  
Anura  
Apoda  
Branchiosauridae  
Caudata  
Dissorophidae  
Ecaudata, see QE868.A5  
Labyrinthodontia  
Microsauria  
Pelobatidae  
Pipidae  
Rhachitomi  
Stegocephala, see QE868.L3

## Birds

- 871  
872.A-Z  
872.A15  
872.A2  
872.A3  
872.A6  
872.A7  
872.A8  
872.A9  
872.C3  
  
872.C65  
872.C7  
872.C75  
872.C8  
872.C9  
872.D5  
872.E52  
872.G15  
  
872.G8  
872.O2  
872.O6  
872.P2  
872.P4  
872.P5  
872.P6  
872.P65  
872.P7  
872.P8
- General works, treatises, and textbooks  
Systematic divisions, A-Z  
Accipitres  
Aepyornithes  
Alcidae  
Anseres  
Apterygidae  
Archaeonithes (Sauriurae)  
Ardeiformes (Ciconiiformes, Gressores)  
Casuariiformes  
Ciconiiformes, see QE872.A9  
Coccyges, see QE872.C9  
Coliiformes  
Columbidae  
Colymbidae (Gaviidae)  
Coraciiformes  
Cuculiformes  
Dinornithiformes  
Enantiornithiformes  
Galliformes (Galli)  
Gaviidae, see QE872.C75  
Gressores, see QE872.A9  
Gruiformes (Ralliformes)  
Odontognathae (Odontoholcae)  
Opisthocomidae  
Passieriformes  
Pelicaniformes  
Piciformes  
Podargidae  
Prophaethontiformes  
Psittaciformes  
Pteroclididae

## Paleozoology

## Chordata

## Vertebrates

## Birds

## Systematic divisions, A-Z -- Continued

- 872.R4 Ralliformes, see QE872.G8
- 872.S4 Rheiformes
- 872.S5 Sauriruae, see QE872.A8
- 872.S8 Sphenisciformes
- 872.S9 Steatornithes
- 872.S8 Steganpodes, see QE872.P4
- 872.S9 Strigiformes
- 872.S9 Struthioniformes
- 872.V9 Teratornis, see QE872.V9
- 875 Vulturidae
- Fossil eggs
- Mammals
- 881 General works, treatises, and textbooks
- 882.A-Z Systematic divisions, A-Z
- 882.C15 Carnivora
- 882.C5 Cetacea
- 882.C8 Chiroptera
- 882.C9 Creodonta
- 882.D4 Deltatheridia
- 882.D45 Desmostylia
- 882.D6 Docodonta
- 882.E2 Edentata. Xenarthra
- 882.H47 Herbivora
- 882.I5 Insectivora
- 882.L3 Lagomorpha
- 882.M25 Macroscelidea
- 882.M3 Marsupialia
- 882.M6 Monotremata
- 882.M8 Multituberculata
- 882.N6 Notoungulata
- 882.P3 Pantotheria
- 882.P45 Pholidota
- 882.P5 Pinnipedia
- 882.P7 Primates
- 882.P8 Cf. GN282 +, Human paleontology
- 882.R6 Proboscidea
- 882.S32 Rodentia
- 882.S6 Scandentia
- 882.T34 Sirenia
- 882.T49 Taeniodontia
- 882.T5 Theria
- 882.T8 Tillodontia
- 882.U2 Tubulidentata
- 882.U3 Ungulates
- 882.U6 General works
- 882.U6 Artiodactyla
- 882.U6 Perissodactyla



- Paleozoology
  - Chordata
    - Vertebrates
      - Mammals
        - Systematic divisions, A-Z
        - Ungulates -- Continued
        - Other
          - e.g. Dinocerata, Toxodontia
          - Xenarthra, see QE882.E2
  - Fossils of doubtful affinity or origin
    - General works
    - Special groups, A-Z
      - Acritarchs
      - Conodonts
      - Coprolites
      - Dacryoconarida
      - Tentaculitida
- Paleobotany
  - Periodicals, societies, congresses, serial collections, yearbooks
  - Nomenclature, terminology, notation, abbreviations
  - History
    - General works
    - By region or country, A-Z
  - Biography
    - Collective
      - Including directories
    - Individual, A-Z
      - e.g.
        - Seward, Sir Albert Charles, 1863-1941
  - General works, treatises, and textbooks
  - Pictorial works and atlases
  - Museums. Exhibitions
    - General works
    - By region or country, A-Z
      - Apply table at QE51.A2-Z
  - Study and teaching. Research
  - Addresses, essays, lectures
  - Stratigraphic divisions
    - Precambrian
      - General works
    - Proterozoic
    - Paleozoic
      - General works
      - Cambrian
      - Ordovician
      - Silurian
      - Devonian
      - Carboniferous
        - General works
      - Mississippian
      - Pennsylvanian
      - Permian

## Paleobotany

## Stratigraphic divisions -- Continued

## Mesozoic

- 921 General works
- 922 Triassic
- 923 Jurassic
- 924 Cretaceous

## Cenozoic

- 925 General works
- Tertiary
- 926 General works
- Paleogene
- 926.5 General works
- 927 Paleocene
- 927.2 Eocene
- 928 Oligocene
- Neogene
- 928.5 General works
- 929 Miocene
- 930 Pliocene

## Quaternary

- 931 General works
- 931.2 Pleistocene
- 931.3 Holocene, Recent
- 932 Amber flora

## Geographical divisions

## Prefer the stratigraphic divisions

- 934 Arctic regions
- North America
- 935 General works
- United States
- 936 General works
- 937.A-Z By region or state, A-Z
- Canada
- 938.A1 General works
- 938.A3-Z By region or province, A-Z
- Mexico
- 939.A1 General works
- 939.A3-Z By region or state, A-Z
- West Indies. Caribbean Area
- 940.A1 General works
- 940.A3-Z By region, country, or island, A-Z
- Offshore islands generally class with adjacent mainland
- Central America
- 941.A1 General works
- 941.A3-Z By region, country, or island, A-Z
- Offshore islands generally class with adjacent mainland
- South America
- 942.A1 General works

- Paleobotany
  - Geographical divisions
    - South America -- Continued
      - 942.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - Europe
      - 943 General works
      - 944 Great Britain
      - 945.A-Z Other regions or countries, A-Z
    - Asia
      - 946.A1 General works
      - 946.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - Africa
      - 947.A1 General works
      - 947.A3-Z By region, country, or island, A-Z
        - Offshore islands generally class with adjacent mainland
    - Australia
      - 948.A1 General works
      - 948.A3-Z By state or territory, A-Z
        - Offshore islands generally class with adjacent mainland
    - New Zealand
      - 948.2
    - Pacific islands, A-Z
      - 949.A-Z
    - Antarctica
      - 950
  - Systematic divisions
    - 955 Algae
      - Including Characeae, Dasycladaceae, Diatomaceae, Dinoflagellates, and Stromatolites
    - 958 Fungi
    - 959 Bryophyta (Liverworts and mosses)
    - Pteridophyta
      - 960 General works
      - 960.5 Psilophyta. Psilopsida
      - 961 Pterophyta. Polypodiophyta (Ferns)
      - 965 Sphenopsida. Equisetophyta
        - Hyeniales, Pseudoborniales, Calamitales, Equisetales, Sphenophyllales
    - 971 Lycopsidea
      - Protolpidodendrales, Lepidodendrales, Pleuromeiales, Isoetales, Lycopodiales, Selaginellales
    - Gymnosperms. Pinophyta
      - 975 General works
      - Cycadophyta
        - 976 General works
        - 976.2 Cycadales
        - 976.3 Cycadeoidales
        - 976.4 Pteridospermales
      - Coniferophyta

## Paleobotany

## Systematic divisions

## Gymnosperms. Pinophyta

## Coniferophyta -- Continued

- 977 General works
- 977.2 Coniferales
- 977.3 Ginkgoales
- 977.4 Gnetales
- 977.5 Taxales
- 978 Cordaitales

## Angiospermophyta. Magnoliophyta

- 980 General works
- 981 Monocotyledons
- 983 Dicotyledons

## Plants of unascertained position

- 990 Coal balls
- 991 Fossil woods. Fossil trees
- 992 Fossil leaves

## Palynology

- 993 General works
- 993.2 Fossil pollen
- 996 Fossil spores
- 996.5 Fossil fruits and seeds

- Natural history (General)
  - Periodicals, societies, congresses, serial collections, yearbooks
    - 1 English
    - 3 French
    - 5 German
    - 7 Other languages (not A-Z)
    - 9 Collected works (nonserial)
    - 9.5 International Biological Programme
    - 11 Voyages and expeditions
      - Cf. Q115+, Scientific expeditions
      - Cf. QK5, Botanical expeditions
      - Cf. QL5, Zoological expeditions
    - 13 Dictionaries and encyclopedias
    - 14 Authorship
    - History
      - 15 General works
      - 21.A-Z By region or country, A-Z
    - Biography
      - 26 Collective
      - 31.A-Z Individual, A-Z
        - e.g.
        - 31.A2 Agassiz
        - Audubon, see QL31.A9
        - 31.D2 Darwin
        - 31.H3 Haller
        - Linnaeus, see QH44
        - 31.M45 Mendel
        - 31.W58 White, Gilbert
    - 35 Directories
    - 41 Pre-Linnaean works (through 1735)
      - Cf. QK41, Botany
      - Cf. QL41, Zoology
    - Works of Linnaeus (General)
      - 43 General works
      - 43.5 Minor works of Linnaeus
      - 44 Works about Linnaeus
      - General works, treatises, and advanced textbooks
        - 45 1736-1969
        - 45.2 1970-
      - 45.5 Popular works
      - 46 Pictorial works and atlases
        - Cf. TR721+, Nature photography
      - 46.5 Natural history illustration
      - 47 Elementary textbooks
      - 48 Juvenile works
      - Study and teaching. Research. Nature study
        - Cf. QH318.5, Biology fieldwork
      - 50.5 Directories
      - 51 General works
      - 53 Outlines, syllabi. Nature study manuals
      - 54 Problems, exercises, examinations
      - 54.5 Activity programs

- Study and teaching.  
 Research. Nature study -- Continued
- 55 Experiments  
 57 Audiovisual aids  
 58 Nature trails  
 Cf. HV1664.N38, Natural history for the  
 visually handicapped
- 60 Technique  
 Collection and preservation
- 61 General works, treatises, and textbooks  
 63 Instruments and apparatus  
 68 Vivariums. Terrariums  
 Cf. SB417, Glass gardens. Wardian cases  
 Aquariums (Home and school), see SF456 +  
 Aquariums (Public), see QL78 +  
 Museums. Exhibitions  
 For research serial publications, see QH1 +
- 70.A1 General works  
 70.A2-Z By region or country, A-Z  
*Under each country:*  
 .x *General works*  
 .x2A-.x2Z *Special. By city, A-Z*
- 72 Commercial lists, catalogs, etc.  
 Nature conservation. Landscape protection. Biological  
 diversity conservation. Endangered species and  
 ecosystems (General). Habitat conservation.  
 Ecosystem management. Conservation biology  
 Including natural areas, nature reserves, wilderness  
 areas, biosphere reserves, ecological reserves  
 Cf. GF90+, Landscape assessment  
 Cf. GV191.67.W5, Recreational aspects of  
 wilderness areas  
 Cf. QH91.8.B6, Marine biology  
 Cf. SK351+, Wildlife management areas
- 75.A1 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 75.A3-Z General works, treatises, and textbooks  
 By region or country  
 United States  
 General works  
 76 By region or state, A-Z  
 76.5.A-Z  
 77.A-Z Other regions or countries, A-Z  
 78 Extinction (Biology)  
 81 Addresses, essays, lectures. Nature books  
 Cf. GV191.2+, Outdoor life. Outdoor recreation  
 Cf. QH53, School manuals of nature study  
 Cf. QH58, Nature trails

- Edible plants and animals. Wild food gathering
  - Cf. QK98.5.A1+, Edible wild plants
  - Cf. QK617, Edible mushrooms
  - Cf. SH400+, Seafood gathering
  - Cf. SH401+, Fishing
  - Cf. SK1+, Hunting
  - For cultivated plants and animals, see S1+
- 82 General works
- 82.3.A-Z By region or country, A-Z
- 83 Classification. Nomenclature
  - Cf. QK91+, Plant classification
  - Cf. QL351+, Animal classification
- 83.5 Terminology, notation, abbreviations
- Geographical distribution. Biogeography
  - Cf. QH543.3, Dispersal of organisms by environmental factors
- 84 General works, treatises, and textbooks
- 84.1 Arctic regions
- 84.2 Antarctica
- 84.3 Temperate regions
- 84.5 Tropics
  - Cf. QH86, Rain forests
- Physiographic divisions
  - Land
    - 84.8 Soils
    - 85 Islands
    - 86 Forests
      - Including rain forests, old growth forests, etc.
    - 87 Mountains
    - 87.3 Wetlands (Marshes, swamps, etc.)
    - 87.5 Moors and heaths
    - 87.7 Prairies. Grasslands
    - 88 Deserts
    - 88.5 Dunes
    - 89 Caves
  - Water. Aquatic biology
    - For aquatic biology of a particular place, see QH101+
    - Cf. GB855+, Natural water chemistry
- 90.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 90.A4 Collected works (nonserial)
- 90.A5-Z General works, treatises, and textbooks
- 90.1 Addresses, essays, lectures
- 90.15 Popular works
- 90.16 Juvenile works
- 90.17 Pictorial works and atlases
- 90.2 Dictionaries and encyclopedias
- 90.25 History
  - For local history, see QH101+
- Biography
  - 90.3.A2 Collective
  - 90.3.A3-Z Individual, A-Z

- Geographical distribution. Biogeography  
 Physiographic divisions  
 Water. Aquatic biology -- Continued
- 90.35 Directories  
 90.45 Aquatic biology as a profession. Vocational guidance  
 Study and teaching. Research  
 90.5 General works  
 90.53 Outlines, syllabi  
 90.55 Laboratory manuals  
 90.56 Collection and preservation  
 Research methods and apparatus  
 90.57.A1 General works, treatises, and textbooks  
 90.57.A3-Z Special, A-Z  
 90.57.A77 Artificial substrates  
 90.57.B5 Biological assay. Biological assessment  
 90.57.D7 Dredging  
 Laboratories and stations  
 Cf. QH91.6+, Marine laboratories  
 Cf. QH96.6+, Freshwater laboratories  
 90.6 General works  
 90.65.A-Z By region or country, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Individual laboratories or stations.  
*By name, A-Z*
- Museums. Exhibitions  
 Serial publications, see QH90.A1  
 90.7.A1 General works  
 90.7.A2-Z By region or country, A-Z  
 Apply table at QH70.A2-Z
- Aquatic parks and reserves  
 90.75.A1 General works, treatises, and textbooks  
 90.75.A3-Z By region or country, A-Z
- 90.8.A-Z Special topics, A-Z  
 90.8.B46 Benthos  
 Ecology, see QH541.5.W3  
 90.8.N44 Nekton  
 90.8.P5 Plankton (General)  
 Cf. QH91.8.P5, Marine plankton  
 Cf. QH96.8.P5, Freshwater plankton  
 Cf. QK933+, Phytoplankton  
 Cf. QL123, Zooplankton
- 90.8.T68 Toxicology
- Marine biology  
 Cf. QH541.5.S3, Marine ecology
- 91.A1 Periodicals, societies, congresses, serial collections, yearbooks  
 91.A4 Collected works (nonserial)  
 91.A5-Z General works, treatises, and textbooks  
 91.1 Addresses, essays, lectures  
 91.15 Popular works  
 91.16 Juvenile works



- Geographical distribution. Biogeography
- Physiographic divisions
  - Water. Aquatic biology
    - Marine biology -- Continued
      - 91.17 Pictorial works and atlases
      - 91.2 Dictionaries and encyclopedias
      - 91.25 History
        - For local history, see QH101 +
    - Biography
      - 91.3.A2 Collective
      - 91.3.A3-Z Individual, A-Z
      - 91.35 Directories
      - 91.45 Marine biology as a profession. Vocational guidance
    - Study and teaching. Research
      - 91.5 General works
      - 91.53 Outlines, syllabi
      - 91.55 Laboratory manuals
      - 91.56 Collection and preservation
    - Research methods and apparatus
      - 91.57.A1 General works, treatises, and textbooks
      - 91.57.A3-Z Special, A-Z
        - 91.57.A4 Aeronautics
        - 91.57.B5 Biological assay. Biological assessment
        - 91.57.C68 Counting and measuring
        - 91.57.D7 Dredging
        - 91.57.E4 Electronic data processing
        - Measuring, see QH91.57.C68
        - 91.57.P4 Photosynthesis determination
        - 91.57.P5 Plankton sampling
        - 91.57.R47 Research ships
    - Laboratories and stations
      - 91.6 General works
      - 91.65.A-Z By region or country, A-Z
        - Apply table at QH90.65.A-Z
    - Museums. Exhibitions
      - Serial publications, see QH90.A1
      - 91.7.A1 General works
      - 91.7.A2-Z By region or country, A-Z
        - Apply table at QH70.A2-Z
    - Aquatic parks and reserves
      - 91.75.A1 General works, treatises, and textbooks
      - 91.75.A3-Z By region or country, A-Z
  - Special topics, A-Z
    - 91.8.A-Z
      - 91.8.B4 Benthos
      - 91.8.B5 Biological chemistry
      - 91.8.B6 Biological diversity conservation
      - 91.8.E3 Echo scattering layers
      - Ecology, see QH541.5.S3
      - 91.8.E87 Eutrophication
      - 91.8.M3 Marine borers. Marine fouling organisms
      - 91.8.M34 Marine productivity
      - 91.8.N37 Nekton

## Geographical distribution. Biogeography

## Physiographic divisions

## Water. Aquatic biology

## Marine biology

## Special topics, A-Z -- Continued

91.8.N4

Neuston

91.8.N46

Nitrogen cycle

91.8.O4

Oil pollution

91.8.P5

Plankton

Cf. QK934, Marine phytoplankton

Cf. QL123, Marine zooplankton

91.8.P7

Primary productivity

## By region

For marine biology of a particular region or country or off the coast of a particular region or country, see QH101+

## Atlantic Ocean

92

General works

## North Atlantic Ocean

92.1

General works

## Coast of North America

92.2

General works

92.3

Gulf of Mexico

92.4

Caribbean Sea

92.5.A-Z

Other, A-Z

92.5.B33

Baffin Bay

92.5.G46

Georges Bank

## Coast of Europe

92.6

General works

92.7

Baltic Sea

92.8

North Sea

92.9.A-Z

Other, A-Z

92.9.B57

Biscay Bay

## Mediterranean Sea

93

General works

93.1

Adriatic Sea

93.2

Aegean Sea

93.3

Black Sea

93.4

Caspian Sea

93.5.A-Z

Other, A-Z

## South Atlantic Ocean

93.6

General works

## Coast of Africa

93.7

General works

93.75

Gulf of Guinea

93.8

Coast of South America

93.9.A-Z

Other, A-Z

## Indian Ocean

94

General works

94.2

Arabian Sea

94.3

Red Sea

94.4

Persian Gulf

94.5

Bay of Bengal

- Geographical distribution. Biogeography
- Physiographic divisions
- Water. Aquatic biology
- Marine biology
- By region
- Indian Ocean -- Continued
- 94.7.A-Z          Other, A-Z
- Pacific Ocean
- 95                General works
- North Pacific Ocean
- 95.1              General works
- Coast of Asia
- 95.2              General works
- 95.22            China Sea
- 95.23            Yellow Sea
- 95.24            Japan Sea
- 95.25            Sea of Okhotsk
- 95.26            Bering Sea
- 95.28.A-Z       Other, A-Z
- Coast of North America
- 95.3              General works
- 95.35            Gulf of Alaska
- 95.4              Coast of Mexico and Central America
- 95.45.A-Z       Other, A-Z
- South Pacific Ocean
- 95.5              General works
- 95.52            Coast of South America
- 95.53            Coral Sea
- 95.54            Tasman Sea
- 95.55.A-Z       Other, A-Z
- Arctic Ocean
- Including polar oceans
- 95.56            General works
- 95.57.A-Z       Arctic seas, A-Z
- 95.58            Antarctic Ocean
- 95.59            Tropical seas
- 95.6.A-Z       Inland seas, A-Z
- Cf. QH93+, Mediterranean Sea
- Cf. QH93.4, Caspian Sea
- 95.7              Seashore biology
- 95.8              Coral reefs
- 95.9              Brackish water. Saline water
- Freshwater biology. Limnology
- For works limited to specific geographic areas,  
                  see QH101+
- 96.A1            Periodicals, societies, congresses, serial  
                  collections, yearbooks
- 96.A4            Collected works (nonserial)
- 96.A5-Z          General works, treatises, and textbooks
- 96.1              Addresses, essays, lectures
- 96.15            Popular works
- 96.16            Juvenile works
- 96.17            Pictorial works and atlases

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 96.2 Dictionaries and encyclopedias  
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     For local history, see QH101 +  
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 96.3.A2 Collective  
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 96.5 General works  
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 96.57.A1 General works, treatises, and textbooks  
 96.57.A3-Z Special, A-Z  
 96.57.P75 Productivity measurement  
 96.57.R33 Radioactive tracers  
 Laboratories and stations  
 96.6 General works  
 96.65.A-Z By region or country, A-Z  
     Apply table at QH90.65.A-Z  
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 96.7.A1 General works  
 96.7.A2-Z By region or country, A-Z  
     Apply table at QH70.A2-Z  
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 96.75.A1 General works, treatises, and textbooks  
 96.75.A3-Z By region or country, A-Z  
 96.8.A-Z Special topics, A-Z  
 96.8.B4 Benthos  
 96.8.B5 Biological assay. Biological assessment  
     Ecology, see QH541.5.F7  
 96.8.E9 Eutrophication  
 96.8.P43 Periphyton  
 96.8.P5 Plankton  
     Cf. QK935, Freshwater phytoplankton  
     Cf. QL143, Freshwater zooplankton  
 96.8.P7 Primary productivity  
 96.8.R34 Remote sensing  
 96.8.R35 Reservoir drawdown  
 Special freshwater environments  
 97 Streams  
 98 Lakes. Ponds  
 99 Springs  
 100 Snow and ice  
 Topographical divisions  
 America

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  - Topographical divisions
    - America -- Continued
      - 101 General works
      - 102 North America
        - General works
        - United States
          - 104 General works
          - 104.5.A-Z By region, A-Z
            - 104.5.A6 Appalachian Mountains
            - 104.5.A74 Arkansas River
            - 104.5.A84 Atlantic Coast
            - 104.5.A85 Atlantic States
            - 104.5.B42 Beartooth Mountains
            - 104.5.B47 Black Hills (S. D. and Wyo.)
            - 104.5.B49 Blue Mountains (Or. and Wash.)
            - 104.5.B5 Blue Ridge Mountains
            - 104.5.C3 Cascade Range
            - 104.5.C45 Chesapeake Bay
            - 104.5.D44 Delaware River
            - 104.5.D46 Delmarva Peninsula
            - 104.5.E37 Dismal Swamp, see QH105.V8
            - 104.5.E73 East
              - Erie, Lake
              - Four Corners Region, see QH104.5.S6
              - Great Basin
              - Great Lakes
              - Great Plains
              - Great Smoky Mountains, see QH105.N8
              - Gulf Coast
              - Hudson River
              - Michigan, Lake
              - Middle Atlantic States
              - Middle West
              - Mississippi River. Mississippi River Valley
              - New England
              - Northeastern States
              - Northwest, Pacific
              - Northwestern States
              - Ozark Mountains
              - Pacific Coast
              - Piedmont Region
              - Potomac River
              - Rocky Mountains
              - San Juan River
              - San Luis Valley (Colo. and N.M.)
              - Savannah River (Ga. and S. C.)
              - Sierra Nevada
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              - Sonoran Desert
              - Southern states
              - Southwest. Four Corners Region
              - West (U.S.)

Geographical distribution. Biogeography  
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North America

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By region, A-Z -- Continued

104.5.W47

White Mountains (Calif. and Nev.)

104.5.W48

White Mountains (N.H. and Me.)

104.5.Y44

Yellowstone River

105.A-W

By state, A-W

e.g.

Hawaii, see QH198.H3

105.N8

North Carolina

Including Great Smoky Mountains

105.V8

Virginia

Including Dismal Swamp

Canada

106

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106.2.A-Z

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Latin America

106.5

General works

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Mexico

Central America

108.A1

General works

108.A2-Z

By region or country, A-Z

108.B43

Belize. British Honduras

British Honduras, see QH108.B43

108.C6

Costa Rica

El Salvador, see QH108.S3

108.G8

Guatemala

108.H6

Honduras

108.N5

Nicaragua

108.P3

Panama

108.S3

El Salvador

West Indies. Caribbean Area

109.A1

General works

109.A2-Z

By island or group of islands, A-Z

109.A48

Antigua and Barbuda

109.A5

Antilles, Lesser

109.B3

Bahamas

109.B35

Barbados

Bermuda, see QH110

109.C38

Cayman Islands

109.C9

Cuba

109.C93

Curaçao

109.D66

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109.G74

Grenada

109.G8

Guadeloupe

109.H3

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Hispaniola, see QH109.H3

109.J5

Jamaica

109.N48

Netherlands Antilles

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    - America
      - Latin America
        - West Indies. Caribbean Area
          - By island or group
            - of islands, A-Z -- Continued
            - 109.P6 Puerto Rico
            - 109.S24 Saint Kitts and Nevis
            - 109.S25 Saint Lucia
            - 109.S28 Saint Vincent and the Grenadines
            - 109.T8 Trinidad and Tobago
            - 109.T82 Turks and Caicos Islands
            - 109.V55 Virgin Islands
            - 110 Bermuda
          - South America
            - General works
            - By region or country
              - 111 Amazon River. Amazonia
              - 112 Argentina
              - 113 Bolivia
              - 117 Brazil
              - 119 Chile
              - 121 Colombia
              - 123 Ecuador
                - For Galapagos Islands, see QH198.G3
              - Guianas
                - General works
                - 125.2 French Guiana
                - 125.4 Guyana (British Guiana)
                - 125.6 Surinam (Dutch Guiana)
                - 125.85 Orinoco River (Venezuela and Colombia)
                - 127 Paraguay
                - 128 Peru
                - 128.5 Titicaca Lake (Peru and Bolivia)
                - 129 Uruguay
                - 130 Venezuela
    - Atlantic Ocean islands
      - General works
      - By island or group of islands, A-Z
        - 132.A1 Azores
        - 132.A2-Z Bermuda, see QH110
        - 132.A9 Canary Islands
        - 132.C3 Greenland
        - 132.G73 Macaronesia
        - 132.M28 Madeira Islands. Salvages Islands
        - 132.M3 Salvages Islands, see QH132.M3
    - Europe
      - General works
      - By region or country
        - 135 British Isles. Great Britain
          - General works
          - 137 England

## Geographical distribution. Biogeography

## Topographical divisions

## Europe

## By region or country

## British Isles. Great Britain

## England -- Continued

138.A1

## General works

138.A3-Z

## Local, A-Z

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138.S4

## Selborne

141

## Scotland

143

## Ireland

143.5

## Northern Ireland

144

## Wales

145

## Austria

147

## France

## Including the Riviera

149

## Germany

150

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152

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154

## Malta

157

## Belgium

158

## Luxembourg

159

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## Russia. Soviet Union. Russia (Federation)

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161.5

## Belarus

161.6

## Moldova

161.7

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162

## Poland

164

## Scandinavia (General)

165

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166

## Iceland

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## Norway

169

## Sweden

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171.2

## Balearic Islands

## Canary Islands, see QH132.C3

173

## Portugal

## For Azores, see QH132.A9

175

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177

## Turkey. Turkey in Europe

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178.A-Z

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178.A47

## Albania

178.A53

## Andorra

178.A73

## Ardennes

178.B9

## Bulgaria

178.C7

## Crete

178.C73

## Croatia



## Geographical distribution. Biogeography

## Topographical divisions

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## By region or country

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- 178.C8 Czechoslovakia. Czech Republic
- 178.D36 Danube River Valley
- 178.E88 Estonia
- 178.F5 Finland
- 178.H8 Hungary
- 178.I87 Istria
- 178.J85 Jura Mountains
- 178.L28 Lapland
- 178.L34 Latvia
- 178.L45 Leichtenstein
- 178.L5 Lithuania
- 178.M23 Macedonia (Republic)
- 178.P53 Mediterranean Region, see QH150
- 178.P97 Pieniny Range (Poland and Slovakia)
- 178.R55 Pyrenees
- 178.R8 Rhine River Valley
- 178.S65 Romania
- 178.S66 Slovakia
- 178.Y8 Slovenia
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- 179 General works
- By region or country
- 181 China
- 183 India
- 183.5 Sri Lanka
- Indochina
- 184 General works
- 184.2 Cambodia
- 184.4 Laos
- 184.6 Vietnam
- 185 Malaysia. Malay Peninsula
- 186 Indonesia
- For Irian Jaya, see QH186.5
- 186.5 New Guinea
- Including Irian Jaya and Papua New Guinea
- 187 Philippines
- Japan
- 188 General works
- 188.3 Ryuku Islands
- Including Okinawa Prefecture
- 189 Iran
- 190 Kuwait
- 191 Russia in Asia. Siberia
- 192 Turkey in Asia
- 193.A-Z Other Asian regions or countries, A-Z
- 193.A34 Afghanistan

Geographical distribution. Biogeography  
Topographical divisions

Asia

By region or country

Other Asian regions

or countries, A-Z -- Continued

- 193.B35 Bangladesh  
 193.B65 Borneo  
 193.C8 Cyprus  
 193.G35 Ganges River  
 193.G62 Gobi Desert  
 193.H5 Himalayan Mountains  
 193.I7 Iraq  
 193.I8 Israel. Palestine  
 193.J6 Jordan  
 193.K57 Kopet Dag (Turkmenistan and Iran)  
 193.K6 Korea  
 193.L42 Lebanon  
 193.M6 Mongolia  
 193.N4 Nepal  
 193.O5 Oman  
 193.P28 Pakistan  
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 Pamir-Alai Mountains  
 Saudi Arabia  
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 South Asia  
 Southeast Asia  
 Syria  
 Taiwan  
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 Vietnam  
 see QH184.6

Africa

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By region or country, A-Z

- 194  
 195.A-Z Africa, Central, see QH195.C37  
 195.A23 Africa, East  
 195.A233 Africa, Eastern  
 195.A24 Africa, French-speaking Equatorial  
 195.A25 Africa, French-speaking West  
 195.A3 Africa, North  
 Cf. QH150, Mediterranean Region  
 195.A312 Africa, Northeast  
 195.A323 Africa, Southern  
 Africa, Southwest, see QH195.N29  
 Africa, Sub-Saharan, see QH195.S87  
 Africa, West, see QH195.W46  
 195.A4 Algeria  
 195.B6 Botswana  
 195.C37 Central Africa  
 195.C38 Central African Republic

## Geographical distribution. Biogeography

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## Africa

## By region or country, A-Z -- Continued

- 195.C45 Chad  
 195.C46 Chad, Lake  
 195.C58 Congo (Brazzaville)  
 195.C6 Congo (Democratic Republic). Zaire  
 195.E4 Egypt  
 195.E76 Equatorial Guinea  
 195.E8 Ethiopia  
 195.G3 Gabon  
 195.G34 Gambia  
 195.G53 Ghana  
 195.G85 Guinea-Bissau  
 195.I9 Ivory Coast. Côte d'Ivoire  
 195.K3 Kalahari Desert  
 195.K4 Kenya  
 195.L47 Lesotho  
 195.L7 Liberia  
 195.M2 Madagascar  
 195.M47 Malawi  
 195.M475 Mali  
 195.M479 Mauritania  
 195.M4793 Mayumbe  
 195.M5 Morocco  
 195.M6 Mozambique  
 (195.N27) Namib Desert  
     see QH195.N29  
 195.N29 Namibia. Southwest Africa  
 195.N49 Niger River  
 195.N5 Nigeria  
 195.O38 Okavango River  
     Rhodesia, Northern, see QH195.Z3  
     Rhodesia, Southern, see QH195.Z55  
     Rift Valley  
     Ruwenzori Mountains  
     Rwanda  
     Sahara  
     Sahel  
     Senegal  
     Sierra Leone  
     South Africa  
     Southern Africa, see QH195.A323  
     Stanley Pool (Congo (Brazzaville) and Zaire)  
     Sub-Saharan Africa  
     Sudan  
     Tanganyika, Lake  
     Tanzania  
     Uganda  
     United Arab Republic, see QH195.E4  
     West Africa  
 195.W46 Zambia  
 195.Z3

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## Topographical divisions

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195.Z55

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## Indian Ocean islands

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196.A1

By island or groups of islands, A-Z

196.A2-Z

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196.A4

Chagos Islands

196.C53

Christmas Island

196.C55

Comoro Islands

196.C64

Heard Island

196.H43

Kerguelen

196.K3

Madagascar, see QH195.M2

196.M35

Marion Island

196.M38

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196.R4

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196.S2

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196.S4

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197.5

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## Pacific Area. Pacific islands

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198.A1

By island or group of islands, A-Z

198.A2-Z

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198.B5

Campbell Island

198.C3

Cook Islands

198.C65

Enewetak Atoll

198.E53

Fanning Island

198.F3

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198.F55

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198.G3

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198.G8

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198.H3

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198.K57

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198.M18

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198.M2

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198.M48

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198.M5

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198.N4

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198.P4

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198.S5

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198.S6

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198.T35

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198.T88

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(199.5)

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- 201      Microscopy
  - Periodicals, societies, congresses, serial collections, yearbooks
- 202      Collected works (nonserial)
- 203      Dictionaries and encyclopedias
- 204      History
  - General works, treatises, and textbooks
    - Including handbooks
    - Cf. QH277, Popular works
  - Through 1969
  - 1970-
- 205      Study and teaching. Research
- 205.2    Technique
  - Cf. QH231 +, Preparation and mounting of objects
- 206      Microscopes
  - Cf. QC370.5 +, Optical instruments
- 207      General works, treatises, and textbooks
  - Class application of microscopic techniques with the subject to which they are applied, e.g. QE434, Microscopic analysis of rocks
- 211      Special microscopes, A-Z
  - Including the use and microscopy of special microscopes
- 212.A-Z    Acoustic microscopes
- 212.A25    Atom-probe field ion microscopes
- 212.A76    Atomic force microscopes
- 212.A78    Compound microscopes
- 212.C6     Dissecting microscopes
- 212.D5     Electron microscopes
- 212.E4     Field ion microscopes
- 212.F5     Fluorescence microscopes
- 212.F55    Interference microscopes
- 212.I5     Near-field microscopes
- 212.N43    Phase-contrast microscopes
- 212.P5     Polarizing microscopes
- 212.P6     Proton microscopes
- 212.P7     Scanning electron microscopes
  - Including low-voltage scanning electron microscopes
- 212.S3     Scanning force microscopes
- 212.S32    Scanning probe microscopes
- 212.S33    Scanning tunneling microscopes
- 212.S35    Transmission electron microscopes
- 212.T7     Ultraviolet microscopes
- 212.U48    X-ray microscopes
- 212.X2     Accessories and their use
- 213      Illuminating apparatus
- 215      Polarizing apparatus
  - Cf. QH212.P6, Polarizing microscopes
- 217      Catalogs of apparatus and supplies
- 219      Chemical microscopy
  - Cf. QD98.M5, Microchemical analysis
- 221      Video microscopy
- 222

- Microscopy -- Continued
- 224 Confocal microscopy
  - 225 Cryomicroscopy
  - Preparation of microscope specimens
  - 231 General works
  - 233 Microtomy. Sectioning
  - 234 Embedding
    - Including specific embedments
  - 235 Fixation
  - 236 Freeze etching
  - 236.2 Freeze fracturing
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  - 239 Mounting
  - 251 Photomicrography
  - 255 Macrocinematography
  - Microphotometry, see QC391
  - 261 Pictorial works and atlases
  - Microscopic observations (General)
    - 271 Through 1800
    - 273 1801-1969
    - 273.2 1970-
  - (274) Microorganisms
    - see QR
  - (275) Aquatic microorganisms
    - see QR105+
  - 277 Popular works
  - 278 Juvenile works
  - 278.5 Recreations

- Biology (General)  
 Cf. N72.B5, Biology and art
- 301 Periodicals, societies, congresses, serial collections,  
 yearbooks
- 302 Collected works (nonserial)
- 302.5 Dictionaries and encyclopedias
- Communication in biology  
 Cf. QH318, Biological illustration
- 303 General works, treatises, and textbooks  
 Information centers
- 303.2 General works, treatises, and textbooks
- 303.4.A-Z By region or country, A-Z  
 Apply table at QH70.A2-Z
- 303.6 Biological literature. Life sciences literature
- 304 Authorship  
 Including practical manuals and stylebooks  
 Cf. PE1475, Preparation of scientific papers in  
 English
- History and conditions  
 Cf. QH361, History of evolution
- 305 General works
- 305.2.A-Z By region or country, A-Z
- 306 Early works through 1860  
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- 307 1861-1969
- 307.2 1970-
- Textbooks
- Advanced
- 308 Through 1969
- 308.2 1970-
- Elementary
- 308.5 Through 1969
- 308.7 1970-
- 309 Popular works
- 309.2 Juvenile works
- 310 Handbooks, tables, formulas, etc.
- 311 Addresses, essays, lectures
- 313 Special aspects of the subject as a whole
- 314 Biology as a profession. Vocational guidance  
 Study and teaching. Research
- 315 General works
- 315.25 Teacher training
- 315.3 Audiovisual aids
- 315.5 Outlines, syllabi
- 316 Problems, exercises, examinations
- 316.4 Activity programs
- 316.5 Experiments
- 317 Laboratory manuals
- 318 Biological illustration
- 318.5 Fieldwork  
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 By region or country  
 United States

- Study and teaching. Research  
 By region or country  
 United States -- Continued  
 319.A1 General works  
 319.A2-Z By region or state, A-Z  
 320.A-Z Other regions or countries, A-Z
- Biological laboratories and stations  
 Class here descriptive works, administrative reports,  
 etc.  
 Cf. QH90.6+, Aquatic biological laboratories  
 Cf. QH91.6+, Marine biological laboratories  
 Cf. QH96.6+, Freshwater biological laboratories  
 For scientific contributions (serial), see QH301
- 321 General works  
 By region or country  
 United States  
 321.5 General works  
 322.A-Z Individual laboratories and stations. By name, A-Z  
 323.A-Z Other regions or countries, A-Z  
 Apply table at QH90.65.A-Z
- 323.2 Safety measures  
 323.5 Biometry. Biomathematics. Mathematical models  
 Cf. QH507, Information theory in biology
- Methods of research. Technique  
 Cf. QH585+, Cytology
- 324 General works  
 324.2 Data processing  
 Tracers  
 324.3 General works  
 324.35.A-Z Special elements. By chemical symbol, A-Z  
 (Table Q1)
- 324.4 Germfree life  
 Instruments and apparatus (General)  
 324.42 General works  
 324.5 Catalogs of apparatus and supplies  
 324.8 Biological models  
 324.9.A-Z Other special, A-Z  
 324.9.A88 Autoclaving  
 324.9.A9 Autoradiography  
 324.9.B48 Biophotometry  
 324.9.B49 Biophysical labeling  
 324.9.B5 Biotelemetry  
 324.9.C3 Calorimetry  
 324.9.C4 Centrifugation  
 Centrifugation, Density gradient, see QH324.9.D46  
 324.9.C7 Cryobiology. Freeze-drying  
 324.9.D46 Density gradient centrifugation  
 324.9.E36 Electron paramagnetic resonance  
 324.9.E38 Electron probe microanalysis  
 324.9.E4 Electrophoresis  
 324.9.E44 Ellipsometry  
 324.9.E5 Enzymatic analysis  
 324.9.F38 Flow cytometry



- Methods of research. Technique  
 Other special, A-Z -- Continued  
 324.9.F4 Fluorescence spectroscopy  
 Freeze-drying, see QH324.9.C7  
 324.9.I5 Infrared spectroscopy  
 324.9.I8 Isolation perfusion  
 324.9.L37 Lasers  
 324.9.L5 Liquid chromatography  
 324.9.L53 Liquid scintillation counting  
 324.9.M28 Magnetic resonance  
 324.9.M3 Manometry  
 324.9.M5 Microprobe analysis  
 324.9.N48 Neutron scattering  
 324.9.N8 Nuclear magnetic resonance  
 324.9.R3 Radioactivation analysis  
 324.9.S4 Separation  
 324.9.S53 Spectrophotometry  
 324.9.S6 Spectroscopy  
 324.9.S62 Spin labels  
 324.9.S95 Synchrotron radiation  
 324.9.T45 Three-dimensional imaging  
 324.9.X2 X-ray microanalysis  
 325 Origin and beginnings of life  
 Space biology  
 Cf. QK760, Effect of space flight on plants  
 Cf. QP82.2.W4, Physiology of weightlessness  
 Cf. RC1150+, Human space physiology  
 Cf. TL943, Planetary quarantine  
 Cf. TL945, Space vehicle sterilization  
 327 General works  
 328 Space radiobiology  
 331 Philosophy of biology  
 332 Bioethics  
 Cf. R724+, Medical ethics  
 333 Social aspects of biology  
 Cf. HM106+, Evolution. Biological sociology  
 341 Nature of life, vital force, etc.  
 343 Comparison of living and nonliving matter  
 343.4 Geobiology. Biosphere  
 Biogeochemistry  
 Cf. QR103, Geomicrobiology  
 343.7 General works  
 344 Biogeochemical cycles  
 345 General biochemistry of plants and animals  
 Cf. QK861+, Plant biochemistry  
 Cf. QP501+, Animal biochemistry  
 Cf. QR148, Microbiological chemistry  
 For the biochemistry of special substances, see QP525+  
 For works limited to chemical aspects of biological  
 materials, see QD415+  
 347 Comparison of plants and animals  
 349 Miscellany and curiosa

- 351 Morphology  
 Cf. QK640+, Plant morphology  
 Cf. QL799+, Animal morphology
- 352 Population biology  
 Cf. HB848+, Demography  
 Cf. QH455, Population genetics  
 Cf. QK910, Vegetation dynamics  
 Cf. QL752, Animal populations
- 353 Biological invasions  
 Evolution  
 For classification by organism, see in subclasses QK  
 or QL  
 Cf. BL263, Religion and science  
 Cf. QE701+, Paleontology
- 359 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 360 Collected works (nonserial)
- 360.2 Dictionaries and encyclopedias
- 360.5 Philosophy
- 360.6 Nomenclature, terminology, notation, abbreviations
- 361 History
- 362 Study and teaching. Research
- 363 Early works through 1860  
 Works of Darwin  
 Collected works. By date  
 Separate works, A-Z  
 The descent of man  
 Editions. By date  
 Selections. By editor  
 Translations  
 Arrange alphabetically by language, then  
 Cutter for translator
- 365.D8 Criticism and reviews  
 The expression of the emotions in man and animals
- 365.E2 Editions. By date
- 365.E25 Selections. By editor
- 365.E3-E79 Translations  
 Arrange alphabetically by language, then  
 Cutter for translator
- 365.E8 Criticism and reviews
- 365.O15-O18 On the origin of species, previous essays  
 Essays written before or during the period of  
 the creation of the main work  
 On the origin of species
- 365.O2 Editions. By date
- 365.O25 Selections. By editor
- 365.O3-O79 Translations  
 Arrange alphabetically by language, then  
 Cutter for translator, for example:
- 365.O5 German
- 365.O55 Hungarian
- 365.O68 Rumanian
- 365.O7 Russian

- Evolution
  - Works of Darwin
    - Separate works, A-Z
      - On the origin of species
        - Translations -- Continued
          - Spanish
            - 365.O73
            - 365.O8
          - Criticism and reviews
            - The variation of animals and plants under domestication
              - Editions. By date
                - 365.V2
                - 365.V25
                - 365.V3-V79
              - Selections. By editor
                - Translations
                  - Arrange alphabetically by language, then Cutter for translator
                    - 365.V8
                    - 365.Z9
                  - Criticism and reviews
                    - 366
                    - 366.2
                    - 367
                    - 367.1
                    - 367.5
                  - Selections from more than one work. By editor
                    - General works, treatises, and textbooks
                      - 1861-1969
                      - 1970-
                    - Popular works
                    - Juvenile works
                    - Phylogenetic relationships
                      - For the evolution of particular animals and groups of animals, see systematic sections, e.g. QL618.2, Evolution of fishes; QL708.5, Evolution of mammals
    - (368) Human evolution
      - see GN281 +
    - (368.5) Plant evolution (General)
      - see QK980
    - 369 Miscellany and curiosa
    - 371 Special aspects of the subject as a whole
      - Cf. QL88.5, Living fossils
    - 372 Coevolution
    - 373 Convergence
    - 375 Natural selection
    - 376 Group selection
    - 378 Symbiogenesis
    - 380 Speciation
    - 390 Mutation in evolution. Evolutionary genetics
    - 395 Heterochrony
    - Variation
      - General works
        - 401
        - (405) Statistical methods
          - see QH323.5
        - (406) Plants
          - see QK983
        - 408 Animals
        - 408.5 Phenetics
        - 409 Clines
        - 411 Experimental study
      - Hybridization. Hybrid zones
        - 421 General works

- Evolution  
 Hybridization. Hybrid zones -- Continued  
 (423) Plants  
     see QK982  
 425 Animals  
     Class particular animals in QL or SF  
     Cf. SF105+, Animal breeding
- Genetics  
 Class here general and experimental works in genetics  
 For studies made on the genetic constitution of an  
 organism in order to elucidate its total  
 function, see systematic divisions in QK, QL, or  
 QR. For genetic studies for improvement of  
 breed or variety, see the plant or animal in S  
 For endocrine genetics, see QP187.5  
 For immunogenetics, see QR184+
- 426 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 426.5 Collected works (nonserial)  
 427 Dictionaries and encyclopedias  
 History  
 428 General works  
 428.2.A-Z By region or country, A-Z
- Biography  
 429 Collective  
 429.2.A-Z Individual, A-Z  
     e.g.  
     Mendel, see QH31.M45
- 429.5 Directories  
 General works, treatises, and textbooks
- 430 General works  
 431 Human genetics (General)  
     Cf. HQ750+, Eugenics  
     Cf. RB155, Medical genetics
- 432 Animal genetics (General)  
     Cf. QH408, Animal variation  
     Cf. SF105+, Animal breeding
- (433) Plant genetics (General)  
     see QK981
- 434 Microbial genetics (General)  
     Cf. QR73, Variation
- 436 Pictorial works and atlases  
 437 Popular works  
 437.5 Juvenile works  
 438 Addresses, essays, lectures  
 438.4.A-Z Special aspects of the subject as a whole, A-Z  
 438.4.B55 Biochemical markers  
 438.4.M3 Mathematical models  
 438.4.M33 Mathematics  
 438.4.S73 Statistical methods
- 438.5 Heredity and environment. Nature and nurture  
 438.7 Social and moral aspects  
 439 Vocational guidance

## Genetics -- Continued

## Study and teaching. Research

- 440 General works
- 440.2 Outlines, syllabi
- 440.3 Problems, exercises, examinations
- 440.4 Experiments
- 440.5 Laboratory manuals
- Laboratories
- 440.7 General works
- 440.8.A-Z By region or country, A-Z
  - Under each country:*
  - .x *General works*
  - .x2A-.x2Z *Individual laboratories. By name, A-Z*
- 441 Technique
- 441.2 Data processing
- 441.5 Cytogenetics
  - Cf. QH600+, Chromosomes
  - Cf. QP620+, Nucleic acids
- Molecular genetics. Genetic engineering
  - Cf. QK981.5, Plant genetics
  - Cf. RB155, Medical genetics
  - Cf. TP248.6, Genetic engineering applications
- 442 General works
- 442.2 Cloning
- 442.4 Gene libraries
- 442.6 Transgenic organisms. Transgenic animals
- Recombination mechanisms
- 443 General works
- 444 Segregation. Assortment
- Crossing over
- 445 General works
- Linkage and genetic mapping
- 445.2 General works
- 445.5 Sex linkage
- 445.7 Mosaicism
- Genes. Alleles. Genome
  - Cf. QP98, Blood groups
- 447 General works
- 447.2 Dominance and recessiveness
- 447.5 Conversion
- 447.6 Polymorphisms
- Lethal factors, see QH463.5
- 447.8.A-Z Individual genes, A-Z
  - 447.8.A28 Actin genes
  - 447.8.B46 Beta-glucuronidase genes
  - 447.8.H65 Homeobox genes
  - Ir genes, see QR184.4
  - Oncogenes, see RC268.42
- Recombination in microorganisms
- 448 General works
- 448.2 Conjugation
- 448.3 Transduction
- 448.4 Transformation

## Genetics

- Recombination mechanisms -- Continued
  - Genetic regulation. Gene expression
    - 450 General works
    - 450.2 Genetic code. Transcription
    - 450.25 RNA editing
    - 450.3 Gene amplification
    - 450.5 Translation. Assembly
    - 450.6 Post-translational modification of proteins
  - 451 Cell fusion. Cell hybridization
  - 452 Cytoplasmic inheritance
  - Mobile genetic elements
    - Cf. QH462.I48, Insertion elements, DNA
    - 452.3 General works
    - 452.5 Episomes
    - 452.6 Plasmids
      - Cf. QR76.6, Bacterial plasmids
  - 452.7 Quantitative genetics
  - 452.8 In situ hybridization
  - 453 Developmental genetics
  - 455 Population genetics
    - Cf. GN289, Physical anthropology
    - Cf. HB848+, Population (Economic theory)
  - 456 Ecological genetics
  - Endocrine genetics, see QP187.5
  - Evolutionary genetics, see QH390
  - Immunogenetics, see QR184+
  - 457 Behavior genetics
    - Cf. BF341+, Heredity of consciousness
    - Cf. BF699+, Genetic psychology
- Mutations
  - Cf. QH390, Mutation in evolution
  - 460 General works
  - 461 Genetic mutation. Polyploidy. Aneuploidy
  - Chromosomal mutation
    - 462.A1 General works, treatises, and textbooks
    - 462.A2-Z By type, A-Z
      - 462.B7 Breakage
      - 462.D4 Deletion
      - 462.D8 Duplication
      - 462.G46 Gene fusion
      - 462.I48 Insertion elements, DNA
      - 462.I5 Inversion
      - 462.N65 Nondisjunction
      - 462.T7 Translocation
  - 463 Gene mutation
  - 463.2 Nonsense mutation
  - 463.5 Lethal factors
  - 464 Spontaneous mutation
  - Induced mutation. DNA damage
    - 465.A1 General works, treatises, and textbooks
    - 465.A2-Z By agent, A-Z
      - 465.C3 Caffeine

## Genetics

## Mutations

Induced mutation. DNA damage

By agent, A-Z -- Continued

465.C5

Chemicals (General)

465.C6

Colchicine

465.D55

DNA. Polynucleotides

465.N4

Neutrons

465.O44

Oil shale extracts

Polynucleotides, see QH465.D55

465.R3

Radiation (General)

465.U4

Ultraviolet rays

465.X2

X-rays

465.5

Site-specific mutagenesis

467

Genetic repair mechanisms

468

Antimutagens

470.A-Z

Experimental organisms, A-Z

Prefer classification by genetic aspect studied

470.A85

Aspergillus

470.C6

Corprinus

470.C64

Corn

470.D7

Drosophila

470.E8

Escherichia

Maize, see QH470.C64

470.M52

Mice

470.N4

Neurospora

470.O35

Oenothera

470.S23

Saccharomyces cerevisiae

470.T6

Tobacco mosaic virus

470.T68

Tradescantia

470.T7

Trillium

## Reproduction

Cf. QK825+, Plants

Cf. QP251+, Animals

471

General works, treatises, and textbooks

## Asexual

Cf. QH442.2, Cloning (Genetic engineering)

475

General works, treatises, and textbooks

477

Fission

479

Budding

## Sexual

481

General works, treatises, and textbooks

485

Fertilization

487

Parthenogenesis

489

Alternation of generations

491

Development. Morphogenesis

Cf. QK665, Plant embryology

Cf. QL951+, Animal embryology

499

## Regeneration

Cf. QK840, Plant physiology

Cf. QP90.2, Animal physiology

- Life
- Cf. QK710+, Plants
  - Cf. QP1+, Animals
  - 501 General works, treatises, and textbooks
  - Biochemistry, see QH345
  - 504 Biomagnetism
    - Cf. QP82.2.M3, Physiological effects of magnetic fields
    - Cf. QP345, Human magnetic fields
  - 505 Biophysics
  - 506 Molecular biology
    - Cf. QP187.3.M64, Molecular endocrinology
  - Homeostasis, see QP90.4
  - 507 Information theory in biology
  - 508 Biological control systems
  - 509 Biological transport
    - Cf. QH615, Osmosis
  - 509.5 Bioelectronics
  - 510 Bioenergetics
  - 510.5 Bioacoustics
  - 511 Growth
  - 512 Biomineralization
  - 513 Biomechanics
    - Cf. QP303, Animal mechanics. Human mechanics
  - 513.5 Fluid dynamics
  - 514 Movement. Tropisms. Taxes
    - Including attachment mechanisms
  - 515 Photobiology
    - Cf. QH641, Bioluminescence
    - Cf. QP517.P45, Photobiochemistry
  - 516 Thermobiology
  - 517 Electrophysiology
    - Cf. QP341, Animals
    - Cf. QP517.B53, Bioelectrochemistry
  - 518 Respiration
  - 518.5 Anaerobiosis
  - 519 Nutrition
  - 521 Metabolism
  - 523 Dormancy
  - 524 Cryptobiosis. Anhydrobiosis
  - 527 Chronobiology. Periodicity. Biorhythms
    - Cf. QP84.6, Physiology
  - 528 Degeneration
  - 528.5 Longevity
    - Cf. QP85, Animals
  - 529 Senescence. Aging
  - 530 Death
    - Cf. QH671, Cell death
    - Cf. QP87, Animal death
  - 530.5 Biodegradation
    - Cf. QP517.B5, Animals
  - 531 Miscellany and curiosa



## Ecology

- Class here works on general ecology and general animal ecology. For works on ecology of individual animals and groups of animals, see the animal  
 Cf. HX550.E25, Communism and ecology  
 Cf. QH546, Ecological genetics  
 For ecology of a particular topographic area, see QH101 +  
 For human ecology, see GF1 +  
 For plant ecology, see QK900 +
- 540 Periodicals, societies, congresses, serial collections, yearbooks
- 540.3 Collected works (nonserial)
- 540.4 Dictionaries and encyclopedias
- 540.5 Philosophy
- 540.6 Nomenclature, terminology, notation, abbreviations
- 540.7 Classification
- History
- 540.8 General works
- 540.83.A-Z By region or country, A-Z
- 541 General works, treatises, and textbooks
- 541.13 Popular works
- 541.14 Juvenile works
- 541.142 Handbooks, tables, formulas, etc.
- 541.145 Addresses, essays, lectures
- 541.15.A-Z Special aspects of the subject as a whole, A-Z
- 541.15.A9 Autoradiographic techniques
- 541.15.B54 Biological assay
- 541.15.B56 Biological diversity  
     For local, see QH84.1-QH198  
     Cf. QH75+, Biological diversity  
     Cf. QH541.15.S64, Species diversity
- 541.15.C44 Chemical ecology
- 541.15.C55 Closed ecological systems
- 541.15.C67 Corridors
- 541.15.D6 Documentation
- 541.15.E24 Ecological heterogeneity
- 541.15.E25 Economic ecology
- 541.15.E26 Ecophysiology  
     Cf. QK905, Plant ecophysiology  
     Cf. QP82+, Animal ecophysiology
- 541.15.E27 Ecotones
- 541.15.E45 Electronic data processing
- 541.15.I5 Heterogeneity, Ecological, see QH541.15.E24
- 541.15.L35 Indicators (Biology)
- 541.15.M3 Landscape ecology
- 541.15.M34 Mathematical models
- 541.15.M63 Mathematics
- 541.15.M64 Molecular ecology
- 541.15.M64 Monitoring
- 541.15.N84 Null models
- 541.15.R34 Radioactive tracers
- 541.15.R4 Remote sensing

- Ecology  
 Special aspects of  
 the subject as a whole, A-Z -- Continued
- 541.15.R45 Restoration ecology  
 541.15.R57 Risk assessment  
 541.15.S5 Simulation methods  
 541.15.S64 Species diversity  
 541.15.S68 Stable isotopes  
 541.15.S72 Statistical methods  
 541.15.S95 Surveys  
 541.15.T68 Toxicity testing
- Study and teaching. Research  
 541.2 General works  
 Special teaching methods and aids  
 541.22 General works  
 541.23 Audiovisual aids  
 541.235.A-Z Other methods, A-Z  
 541.235.G34 Games  
 541.24 Experiments  
 By region or country  
 United States  
 General works  
 By region or state, A-Z  
 Other regions or countries, A-Z
- Ecological laboratories and stations  
 541.27 General works  
 541.273.A-Z By region or country, A-Z  
 541.28 Technique  
 541.3 Biological productivity  
 Cf. QK909.5, Vegetation productivity
- 541.5.A-Z By type of environment, A-Z  
 For local, see QH101+  
 Abyssal zone, see QH541.5.D35  
 Antarctica, see QH84.2  
 Aquatic, see QH541.5.W3  
 Arctic regions, see QH84.1  
 Arid regions  
 Bogs  
 Brackish waters, see QH541.5.E8  
 Canals  
 Caves  
 Chaparral  
 Cities. Urban ecology  
 Cloud forests  
 Coasts  
 Coral reefs and islands  
 Cypress swamps  
 541.5.D35 Deep-sea zone. Abyssal zone  
 541.5.D4 Deserts  
 541.5.E8 Estuaries. Brackish waters  
 541.5.F56 Fjords

## Ecology

By type of environment, A-Z -- Continued

- 541.5.F6 Forests  
Including forest canopy ecology and old growth forest ecology  
Cf. QH541.5.C63, Cloud forests  
Cf. QH541.5.R27, Rain forests  
Cf. SD416+, Forest influences  
Cf. SD418+, Deforestation
- 541.5.F7 Fresh water
- 541.5.G37 Gardens  
Grasslands, see QH541.5.P7
- 541.5.G76 Groundwater
- 541.5.H65 Hot springs  
Cf. QR107, Microbial ecology
- 541.5.H67 Household ecology
- 541.5.I8 Islands
- 541.5.JI8 Jungle
- 541.5.K4 Kelp beds
- 541.5.L27 Lagoons
- 541.5.L3 Lakes  
Cf. QH541.5.S22, Saline lakes
- 541.5.L53 Llanos
- 541.5.M27 Mangrove swamps  
Marine ecology, see QH541.5.S3
- 541.5.M3 Marshes. Wetlands
- 541.5.M4 Meadows
- 541.5.M44 Mediterranean-type  
Cf. QH150, Mediterranean Region
- 541.5.M6 Moors and heaths
- 541.5.M65 Mountains
- 541.5.O25 Ocean currents  
Oceans, see QH541.5.S3
- 541.5.P6 Polar regions
- 541.5.P63 Ponds
- 541.5.P7 Prairies. Grasslands
- 541.5.R27 Rain forests
- 541.5.R3 Rangelands
- 541.5.R4 Reservoirs
- 541.5.R52 Riparian
- 541.5.R62 Roadside
- 541.5.S22 Saline lakes
- 541.5.S24 Salt marshes. Tide marshes
- 541.5.S26 Sand dunes
- 541.5.S3 Sea. Marine ecology. Ocean ecology  
Cf. QH541.5.D35, Deep-sea zone
- 541.5.S35 Seashore. Tidal pools
- 541.5.S55 Shrublands
- 541.5.S6 Soil
- 541.5.S7 Streams
- 541.5.S87 Sublittoral

- Ecology  
 By type of environment, A-Z -- Continued
- 541.5.S9 Swamps  
     Cf. QH541.5.C95, Cypress swamps  
     Cf. QH541.5.M27, Mangrove swamps
- 541.5.T3 Taigas  
 Tidal pools, see QH541.5.S35  
 Tide marshes, see QH541.5.S24
- 541.5.T7 Tropics  
 541.5.T8 Tundras  
 Urban ecology, see QH541.5.C6
- 541.5.V27 Vacant lots  
 541.5.V3 Valleys  
 541.5.W3 Water. Aquatic ecology  
 Water, Fresh, see QH541.5.F7  
 Wetlands, see QH541.5.M3
- 541.5.X45 Xeric ecology  
 (542) Paleoeology  
     see QE720
- 542.5 Geobiology, see QH343.4  
 Biogeomorphology  
 Bioclimatology. Microclimatology  
     Cf. QH545.T4, Temperature as a factor in  
     ecology
- 543 General works  
 543.2 Acclimatization  
     Cf. QK913, Plant acclimatization
- 543.3 Dispersal of organisms by environmental factors  
 Radioecology. Radiobiology  
     Cf. QH328, Space radiobiology  
     Cf. QH545.N8, Nuclear power plants, nuclear  
     reactors  
     Cf. QH545.N83, Nuclear warfare  
     Cf. QH652+, Radiation effects on cells
- 543.5.A1 Periodicals, congresses  
 543.5.A2 Collected works (nonserial)  
 543.5.A3-Z General works, treatises, and textbooks  
 543.6 Marine radioecology  
 544 Phenology
- Influence of special factors in the environment  
     Cf. GF51, Human ecology  
     Cf. QK746+, Plants  
     Cf. QP82+, Animals  
     Cf. RA565+, Environmental health  
     For works on the technical aspects (e.g., control,  
     measurement, etc.) of pollution in general and  
     of special kinds of pollution, see TD172+
- 545.A1 General works, treatises, and textbooks  
 545.A15-Z Special, A-Z  
     Acid precipitation, see QH545.A17  
     Acid rain. Acid precipitation. Acid deposition  
     Acids  
     Actinide elements

## Ecology

## Influence of special factors in the environment

## Special, A-Z -- Continued

- 545.A25 Agricultural chemicals  
 545.A3 Air pollution  
 545.A4 Aldrin  
 545.A43 All terrain vehicles  
 545.A45 Ammonia  
 545.A77 Arsenic  
 Atomic warfare, see QH545.N83  
 545.B45 Benzene  
 545.B47 Beryllium  
 545.B6 Boron  
 Brines, Oil field, see QH545.O47  
 545.C3 Cadmium  
 545.C34 Campfires  
 545.C35 Canals  
 545.C37 Carbon isotopes  
 545.C47 Chemical elements  
 545.C5 Chloroform  
 545.C54 Chromium  
 545.C57 Coal-fired power plants  
 545.C6 Copper  
 545.D35 Dams. Reservoirs  
 545.D4 Deicing chemicals  
 Desalination plants, see QH545.S33  
 545.D55 Dioxins  
     Cf. QH545.T44, Tetrachlorodibenzodioxin  
 545.D57 Diquat  
 545.D7 Dredging  
 545.D72 Dredging spoil  
 545.D74 Drilling muds  
 545.D75 Drilling platforms  
 545.E38 Electric power plants  
 545.E4 Electromagnetic waves  
 545.E42 ELF electromagnetic fields  
 Energy development, see QH545.E53  
 545.E53 Energy industries. Energy development  
 Erosion, Soil, see QH545.S64  
 545.F47 Fertilizers  
 545.F5 Fire. Fire ecology  
 545.F52 Fish culture  
 545.F55 Flood control  
 Flood dams, see QH545.D35  
 545.G37 Gas pipelines  
 545.G46 Geothermal power plants  
 545.G55 Glyphosate  
 545.H42 Heavy metals  
 545.H47 Herbicides  
 545.H92 Hydrocarbons  
     Including polycyclic aromatic hydrocarbons  
 545.H93 Hydroelectric power plants  
 Insecticides, see QH545.P4

## Ecology

Influence of special factors in the environment

Special, A-Z -- Continued

- 545.L4 Land reclamation, see QH545.R38
- 545.M3 Lead
- 545.M4 Manganese
- 545.M45 Marine pollution, see QH545.W3
- 545.M52 Mercury
- 545.M6 Metals
- 545.M86 Metals, Heavy, see QH545.H42
- 545.N3 Mineral industries
- 545.N47 Molybdenum
- 545.N5 Muds, Drilling, see QH545.D74
- 545.N8 Munitions
- 545.N83 Natural disasters
- 545.O33 Nickel
- 545.O38 Nitrogen
- 545.O47 Nuclear power plants. Nuclear reactors
- 545.O5 Nuclear warfare
- 545.O54 Ocean outfalls
- 545.O56 Off-road vehicles, see QH545.A43
- 545.O57 Offshore oil industry
- 545.O58 Cf. QH545.D75, Drilling platforms
- 545.O59 Oil field brines
- 545.O60 Oil pollution
- 545.O61 Cf. QH91.8.04, Marine biology
- 545.O62 Oil sands extraction plants
- 545.O63 Oil shales
- 545.O64 Oil well drilling
- 545.O65 Organochlorine compounds
- 545.O66 Organometallic compounds
- 545.O67 Outdoor recreation
- 545.O68 Ozone
- 545.P37 Pentachlorophenol
- 545.P39 Persistent pollutants
- 545.P4 Pesticides
- 545.P5 Including insecticides
- 545.P6 Phosphorus
- 545.P6 Pipelines, Gas, see QH545.G37
- 545.P6 Pollution (General), see QH545.A1
- 545.P6 Pollution, Air, see QH545.A3
- 545.P6 Pollution, Marine, see QH545.W3
- 545.P6 Pollution, Oil, see QH545.O5
- 545.P6 Pollution, Thermal, see QH545.T48
- 545.P6 Pollution, Water, see QH545.W3
- 545.P6 Polychlorinated biphenyls
- 545.P6 Polycyclic aromatic hydrocarbons, see QH545.H92
- 545.P6 Power plants, Coal-fired, see QH545.C57
- 545.P6 Power plants, Electric, see QH545.E38
- 545.P6 Power plants, Geothermal, see QH545.G46
- 545.P6 Power plants, Hydroelectric, see QH545.H93
- 545.P73 Predator control
- 545.P73 Radiation, see QH543.5 +

## Ecology

## Influence of special factors of the environment

## Special, A-Z -- Continued

- 545.R38 Reclamation of land  
 545.R42 Recreation areas  
 545.R44 Reforestation  
 Reservoirs, see QH545.D35  
 545.R58 River regulation  
 545.R62 Roads  
 545.S33 Saline water conversion plants. Desalination  
     plants  
 545.S35 Saltwater encroachment  
 545.S37 Sand and gravel industry  
 545.S45 Selenium  
 545.S49 Sewage  
 545.S493 Sewage sludge  
 545.S5 Shotgun pellets  
 545.S55 Silver  
 Sludge, Sewage, see QH545.S493  
 545.S63 Soil amendments  
 545.S64 Soil erosion  
 545.S8 Stream channelization  
 545.S84 Strip mining  
 545.S9 Sulphur  
 545.S92 Sulphur compounds  
 545.T37 Technetium  
 545.T4 Temperature  
 545.T44 Tetrachlorodibenzodioxin  
 545.T45 Textile industry  
 545.T48 Thermal pollution  
 545.T7 Trace elements  
 545.T74 Transuranium elements  
 545.T76 Tritium  
 545.U7 Uranium mining  
 545.V3 Vanadium  
 545.W26 War  
     Cf. QH545.N83, Nuclear warfare  
 545.W28 Waste disposal  
 545.W3 Water pollution  
     Including marine pollution  
     Cf. QH90.8.T68, Aquatic toxicology  
 545.W33 Water resources development  
 Waterpower electric plants, see QH545.H93  
 545.X44 Xenobiotics  
 545.Z56 Zinc  
 546 Adaptation  
     Including protective mechanisms, mimicry  
     Cf. QH543.2, Acclimatization  
     Cf. QK912-QK924, Plant adaptation  
 546.3 Competition. Niche  
 547 Parasitism  
 Symbiosis  
 548 General works

- Ecology  
 Symbiosis -- Continued  
 548.3 Mutualism  
 549 Colonies  
 549.5 Animal-plant relationships  
 (555) Degeneration  
     see QH528  
 (558) Aging  
     see QH529  
 (559) Death  
     see QH530  
 Cytology  
 Class here general and experimental works in cytology.  
 For works on the cytology of particular animals  
     written to elucidate the total organism, see the  
     systematic divisions in QL  
 Cf. QH441.5, Cytogenetics  
 Cf. QK671, Plant cell anatomy  
 Cf. QK725, Plant cell physiology  
 573 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 574 Collected works (nonserial)  
 575 Dictionaries and encyclopedias  
 History  
 577 General works  
 578.A-Z By region or country, A-Z  
 General works, treatises, and textbooks  
 581 Through 1969  
 581.2 1970-  
 581.5 Addresses, essays, lectures  
 582 Pictorial works and atlases  
 582.4 Popular works  
 582.5 Juvenile works  
 Study and teaching. Research  
 583 General works  
 583.2 Laboratory manuals  
 Technique  
     Cf. TP248.27.A53, Animal cell biotechnology  
 585 General works  
 Cell culture  
 585.2 General works  
 585.3 Serum-free culture media,  
     Cell lines  
 585.4 General works  
 585.45 Continuous cell lines  
 585.5.A-Z Special techniques, A-Z  
 585.5.C43 Cell fractionation  
 585.5.C44 Cell separation  
 585.5.C64 Colony-forming units assay  
 585.5.C98 Cytofluorometry  
 585.5.C984 Cytophotometry  
 585.5.D38 Data processing  
 585.5.E43 Electrodes, Ion selective



## Cytology

## Technique

## Special techniques, A-Z -- Continued

- 585.5.E46 Electrophoresis  
 585.5.E48 Electroporation  
 585.5.F56 Flow cytometry  
 585.5.I45 Immobilization of cells  
 585.5.L37 Lasers  
 585.5.M52 Micropipette techniques  
 585.5.M53 Microspectrophotometry  
 585.5.N82 Nuclear magnetic resonance spectroscopy  
 (585.5.S45) Serum-free culture  
     see QH585.3
- 587 Cell populations  
 591 Protoplasm. Cytoplasm  
 595 Nucleus  
 596 Nucleolus  
 597 Centrosome. Centriole  
 599 Chromatin  
 Chromosomes  
     Cf. QH462.A1+, Chromosomal mutation
- 600 General works  
 600.3 Telomere  
 600.5 Sex chromosomes  
 600.6 Giant chromosomes. Lampbrush chromosomes
- Cell membranes  
 601 General works  
 601.2 Nuclear membranes  
 602 Lipid membranes. Bilayer lipid membranes.  
     Liposomes
- 603.A-Z Other special, A-Z  
 603.C4 Cell junctions  
 603.C43 Cell receptors  
 603.C63 Coated vesicles  
 603.C95 Cytoplasmic filaments  
 603.C96 Cytoskeleton  
 603.E6 Endoplasmic reticulum  
 603.E93 Extracellular space  
 603.G6 Golgi apparatus  
 603.I49 Inclusion bodies  
 603.I54 Ion channels  
 603.L9 Lysosomes  
 603.M35 Microbodies  
 603.M4 Microsomes  
 603.M44 Microtubules  
 603.M5 Mitochondria  
 603.N83 Nuclear matrix  
 603.P47 Peroxisomes  
 603.R5 Ribosomes  
 603.S27 Sarcoplasmic reticulum
- Control mechanisms. Cell regulation  
     Cf. QP187.3.C44, Endocrinology
- 604 General works

- Cytology
- Control mechanisms. Cell regulation -- Continued
- 604.2 Cell interaction  
Cf. QP517.C45, Cellular signal transduction
- 604.3 Cell compartmentation
- 604.5 Ion exchange
- 604.7 Cell growth. Cell proliferation
- Cell division
- 605 General works
- 605.2 Mitosis
- 605.3 Meiosis
- 607 Cell differentiation  
Cf. QL963.5, Embryology
- 608 Aging of cells  
Cf. QH671, Pathology and death
- 609 Cellular repair mechanisms
- Physical and chemical properties
- Cf. QH506, Molecular biology
- 611 General works
- 613 Histochemistry
- 615 Osmosis
- 621 Turgescence
- 622 Adsorption
- 623 Adhesion
- Physiological properties
- 631 General works
- 633 Respiration
- 634 Ingestion. Pinocytosis, etc.
- 634.2 Exocytosis
- 634.5 Metabolism
- 635 Heat production. Energy
- 641 Light production. Bioluminescence  
Cf. QP517.C54, Chemiluminescence
- 642 Optical properties
- 643 Radiation properties
- 645 Electric properties
- 645.5 Mechanical properties
- 646 Contraction
- 647 Motility. Irritability
- Effect of physical and chemical agents on cells
- Cf. QK746+, Plant physiology
- Cf. QP82+, Animal physiology
- 650 General works
- 651 Light  
Cf. QH515, Photobiology
- Radiation
- For the effect of radiation on specific organs, organisms, etc., see the specific organ, etc., e.g. QP356.5, Nervous system
- Cf. QP82.2.R3, Radiation (Physiology)
- 652.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 652.A2 Collected works (nonserial)

## Cytology

Effect of physical and chemical agents on cells

Radiation -- Continued

652.A3-Z

General works, treatises, and textbooks

652.4

Ultraviolet radiation

(652.5)

Radiogenetics

see QH465.R3

652.7

Acoustic radiation

653

Temperature

655

Electricity

656

Magnetic fields

657

Gravity

658

Pressure

659

Chemicals

671

Pathology and death

Cf. QH608, Aging of cells

## Economic biology

Cf. S494.5.E25, Agriculture

Cf. SB107+, Economic botany

Cf. SF84+, Economic zoology

705

General works

705.5.A-Z

By region or country, A-Z

- Botany
- 1 Periodicals, societies, congresses, serial collections,  
yearbooks
- 3 Collected works (nonserial)
- 5 Voyages and expeditions
- 7 Encyclopedias
- 9 Dictionaries
- 10 Terminology, notation, abbreviations  
Cf. QK96, Nomenclature
- 11 Indexes of plants
- 13 Popular names
- 14.5 Botanical literature  
Including works on herbals
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z  
e. g.
- 31.G8 Gray
- 31.T7 Torrey
- 35 Directories
- General works and treatises  
Cf. QK91, Works of Linnaeus (Botany only)
- 41 Early through 1753
- 45 1754-1969
- 45.2 1970-
- 46 Special aspects of the subject as a whole
- 46.5.A-Z Special topics, A-Z
- 46.5.A47 Aerial photography
- 46.5.B66 Botanizers
- Botany for gardeners, see QK50
- 46.5.E4 Electronic data processing
- 46.5.H85 Human-plant relationships
- 46.5.M3 Mathematical models
- 46.5.S7 Statistical methods
- 46.5.V44 Vegetation monitoring  
For local, see QK108 +
- 47 Textbooks
- 48 Handbooks, tables, formulas, etc.
- 49 Juvenile works
- 50 Popular works  
For plants of individual regions or countries, see  
QK108 +
- 50.5 Botany as a profession. Vocational guidance  
Study and teaching. Research
- 51 General works
- 51.2.A-Z By region or country, A-Z  
Each region or country subarranged by author
- 52 Outlines, syllabi
- 52.5 Problems, exercises, examinations
- 52.55 Activity programs

- Study and teaching. Research -- Continued
- 52.6 Experiments
- 53 Laboratory manuals  
Cf. QK673, Anatomy and histology
- 55 Charts
- 57 Plant analysis blanks
- 61 Collection and preservation
- 61.4 Plant prints
- 62 Vegetation surveys
- 63 Vegetation mapping
- Botanical gardens  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1  
Cf. QK479+, Arboretums
- 71 General works
- 73.A-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Individual. By name, A-Z*
- Herbariums  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1
- 75 General works
- 76.A-Z By region or country, A-Z
- 77.A-Z Individual. By name, A-Z
- Laboratories  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1
- 78 General works
- 78.5.A-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Individual laboratories. By name, A-Z*
- Museums. Exhibitions  
Class here descriptions, catalogs, and administrative reports only. Class other serial publications in QK1
- 79 General works
- 79.5.A-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Special. By city, A-Z*
- 81 Addresses, essays, lectures
- 83 Plant lore  
Cf. GR780+, Folklore
- National plants. Official plants  
Including state, provincial, etc. plants
- 84.8 General works
- 85 By region or country  
United States

- National plants. Official plants  
 By region or country -- Continued  
 85.3.A-Z Other regions or countries, A-Z  
 85.5 Wild flowers  
 Prefer classification by area  
 Plant conservation. Rare plants. Endangered plants  
 86.A1 General works  
 86.A5-Z By region or country, A-Z  
 86.4 Plant reintroduction  
 Relict plants  
 86.7 General works  
 86.73.A-Z By region or country, A-Z  
 87 Miscellany and curiosa  
 89 Pressed plants with text. Bound herbaria  
 Classification  
 91 Works of Linnaeus (Botany only)  
 92 Linnaean system (Minor works)  
 Natural systems  
 Not to be used for systems developed after Darwin  
 93 General works, treatises, and textbooks  
 94 Minor works  
 Systematics and taxonomy. Philosophy and methodology  
 95 General works  
 95.4 Chemotaxonomy  
 For geographic treatment, see QK108 +  
 For systematic treatment, see QK494.5.A +  
 95.6 Molecular aspects  
 96 Nomenclature  
 97 Comprehensive systematic works  
 97.5 Identification  
 For geographic treatment, see QK108 +  
 98 Pictorial works and atlases (of plants)  
 Prefer classification by area  
 Atlases of botanical maps are classed in class G  
 Botanical illustration and artists  
 Cf. QK98, Pictorial works  
 History  
 98.15 General works  
 98.16.A-Z By region or country, A-Z  
 Biography  
 98.18 Collective  
 98.183.A-Z Individual, A-Z  
 Including collections of their illustrations  
 98.2 General works  
 98.24 Technique  
 98.3 Catalogs  
 98.4 Useful plants  
 98.4.A1 General works, treatises, and textbooks  
 98.4.A5-Z By region or country, A-Z  
 Economic botany, see SB107 +  
 Edible plants  
 Cf. SB175 +, Edible plants  
 98.5.A1 General works, treatises, and textbooks

- 98.5.A5-Z Edible plants -- Continued  
By region or country, A-Z  
Dye plants (General)  
Cf. SB285+, Culture
- 98.7.A1 General works, treatises, and textbooks  
98.7.A5-Z By region or country, A-Z  
Medical botany (General)  
Cf. RS164, Drugs of the vegetable kingdom  
Cf. SB293, Culture
- 99.A1 General works, treatises, and textbooks  
99.A5-Z By region or country, A-Z  
Poisonous plants  
Cf. SB617+, Poisonous plants as pests
- 100.A1 General works, treatises, and textbooks  
100.A5-Z By region or country, A-Z  
Geographical distribution. Phytogeography  
General works, treatises, and textbooks  
Aquatic flora (General)  
Cf. QK564+, Algae  
For geographic treatment, see QK108+
- 102 General works  
103 Marine flora (General)  
105 Freshwater flora (General)  
Topographical divisions  
108 Special parts of the world  
Including British Empire  
America  
109 General works  
North America  
110 General works  
112 Illustrations of North American flora  
United States  
115 General works  
By region  
Northeast  
117 General works  
118 Popular handbooks  
121 New England  
Atlantic States. Atlantic Coast  
122 General works  
122.3 Appalachian Mountains  
122.5 Middle Atlantic States  
122.8 Chesapeake Bay  
122.85 Potomac River  
Southern States  
124 General works  
Southeast  
125 General works  
125.35 Blue Ridge Mountains  
125.4 Great Smoky Mountains  
125.8 Gulf States  
128 Middle West  
130 Great Lakes

## Geographical distribution. Phytogeography

## Topographical divisions

## America

## North America

## United States

## By region -- Continued

- 133 West (U.S.)
- 135 Great Plains
- 139 Rocky Mountains Region
- 141 Great Basin
- 142 Southwest
- 143 Pacific coast
- 144 Northwest

## By state

- 145 Alabama
- 146 Alaska
- 147 Arizona
- 148 Arkansas
- 149 California
- 150 Colorado
- 151 Connecticut
- 152 Delaware
- 153 District of Columbia
- 154 Florida
- 155 Georgia
- 156 Hawaii, see QK473.H4
- 157 Idaho
- 159 Illinois
- 160 Indiana
- 161 Iowa
- 162 Kansas
- 163 Kentucky
- 164 Louisiana
- 165 Maine
- 166 Maryland
- 167 Massachusetts
- 168 Michigan
- 169 Minnesota
- 170 Mississippi
- 171 Missouri
- 172 Montana
- 173 Nebraska
- 174 Nevada
- 175 New Hampshire
- 176 New Jersey
- 177 New Mexico
- 178 New York
- 179 North Carolina
- 180 North Dakota
- 181 Ohio
- 182 Oklahoma
- 183 Oregon
- 183 Pennsylvania



- Geographical distribution. Phytogeography
  - Topographical divisions
    - America
      - North America
        - United States
          - By state -- Continued
            - 184 Rhode Island
            - 185 South Carolina
            - 186 South Dakota
            - 187 Tennessee
            - 188 Texas
            - 189 Utah
            - 190 Vermont
            - 191 Virginia
            - 192 Washington
            - 193 West Virginia
            - 194 Wisconsin
            - 195 Wyoming. Yellowstone Park
          - Canada
            - 201 General works
            - 203.A-Z By region or province
          - Latin America
            - 205 General works
            - 211 Mexico
              - Central America
                - 215 General works
                - 216 Belize
                - 217 Costa Rica
                - 218 Guatemala
                - 219 Honduras
                - 220 Nicaragua
                - 221 Panama
                - 222 El Salvador
              - West Indies. Caribbean area
                - 225 General works
                - 226 Bahamas
                - 227 Cuba
                - Hispaniola
                  - 227.7 General works
                  - 227.8 Dominican Republic
                - 228 Haiti
                - 229 Jamaica
                - 230 Puerto Rico
                - Other, A-Z
                  - 231.A-Z
                    - 231.A48 Antigua and Barbuda
                    - 231.A5 Antilles, Lesser
                    - 231.A78 Aruba
                    - 231.B3 Barbados
                    - 231.C35 Cayman Islands
                    - 231.C87 Curaçao
                    - 231.D59 Dominica
                    - Dominican Republic, see QK227.8
                    - 231.G73 Grenada

## Geographical distribution. Phytogeography

## Topographical divisions

## America

## Latin America

## West Indies. Caribbean area

## Other -- Continued

- 231.G8 Guadeloupe
- 231.M35 Martinique
- 231.N4 Netherlands Antilles
- 231.S3 Saint Bartholomew
- 231.S33 Saint Kitts and Nevis
- 231.S34 Saint Lucia
- 231.S35 Saint Martin
- 231.S38 Saint Vincent and the Grenadines
- 231.T75 Trinidad and Tobago
- 231.T87 Turks and Caicos Islands
- 231.V5 Virgin Islands

232

## Bermuda

## South America

- 241 General works
- 261 Argentina
- 262 Bolivia
- 263 Brazil
- 264 Chile
- 265 Colombia
- 266 Ecuador
- Galapagos, see QK473.G2
- 267 Guyana (British Guiana)
- 268 Surinam (Dutch Guiana)
- 269 French Guiana
- 270 Paraguay
- 271 Peru
- 272 Uruguay
- 273 Venezuela
- 274 Falkland Islands

## Atlantic Ocean Islands

- 275.A1 General works
- 275.A3-Z By island or group of islands, A-Z
- 275.A9 Azores
- Bermuda, see QK232
- 275.C4 Canary Islands, see QK422
- Cape Verde Islands
- Falkland Islands, see QK274
- 275.F37 Faroe Islands
- 275.M3 Madeira
- 275.S3 Salvages Islands
- 275.S68 South Orkney Islands
- 275.T74 Tristan da Cunha Island

## Europe

- 281 General works
- Zone and physiographic divisions
- 297 Alpine
- 303.A-Z Other, A-Z

## Geographical distribution. Phytogeography

## Topographical divisions

## Europe -- Continued

## By region or country

## British Isles. Great Britain. England

- 306                    General works
- 307                    Ireland
- 307.5                 Northern Ireland
- 308                    Scotland
- 309                    Wales
- 310                    Austria
- 311                    Hungary
- 313                    France
- 313.5                 Monaco
- 314                    Germany
  - Including West Germany
- 314.2                 East Germany
- 314.5                 Mediterranean Region
  - Including African coast
- 315                    Greece
- 316                    Italy
- 316.5                 Malta
- 317                    Benelux (Low Countries)
- 318                    Belgium
- 319                    Luxembourg
- 320                    Netherlands (Holland)
- 321                    Russia. Soviet Union. Russia (Federation)
- 321.5                 Belarus
- 321.6                 Moldova
- 321.7                 Ukraine
- 322                    Poland
- 323                    Finland
- 324                    Scandinavia (General)
  - Including Lapland
- 325                    Denmark
- 325.5                 Iceland
- 326                    Norway
- 327                    Sweden
- 328                    Iberian Peninsula
  - General works
- 329                    Spain
- 330                    Portugal
- 331                    Switzerland
- 331                    Balkan Peninsula
  - Including Turkey in Europe
- 332                    General works
- 332.5                 Bosnia and Hercegovina
- 333                    Bulgaria
- 334                    Croatia
- 334.5                 Macedonia (Republic)
- 335                    Romania
- 335                    Serbia, see QK336
- 335.5                 Slovenia

## Geographical distribution. Phytogeography

## Topographical divisions

## Europe

## By region or country

## Balkan Peninsula -- Continued

336

## Yugoslavia

## Including Montenegro and Serbia

339.A-Z

Other European regions, islands, or countries,  
A-Z

339.A5

## Albania

339.A54

## Andorra

339.B34

## Baltic States

339.C5

## Channel Islands

339.C65

## Constance, Lake of

339.C8

## Czechoslovakia. Czech Republic

339.E8

## Estonia

339.J85

## Jura Mountains (France and Switzerland)

339.L3

## Latvia

339.L46

## Liechtenstein

339.L5

## Lithuania

## Mediterranean Region, see QK314.5

339.P95

## Pyrenees (France and Spain)

339.S55

## Slovakia

## Yugoslavia, see QK336

## Asia

341

## General works

352

## Afganistan

353

## Arabian Peninsula

Including Saudi Arabia, Kuwait, Bahrain, Yemen,  
etc.

354

## Baluchistan

## Cf. QK358.5, Baluchistan in Pakistan

355

## China

355.5

## Hong Kong

355.6

## Macao

356

## Taiwan

357

## Mongolia

## South Asia. British Indian Empire

357.5

## General works

358

## India

358.5

## Pakistan

## Including Baluchistan (Province)

358.7

## Bangladesh

359

## Sri Lanka

359.5

## Nepal

359.6

## Bhutan

## Southeastern Asia

## For Malay Peninsula, see QK365

360

## General works

360.5

## Burma

361

## Kampuchea. Laos. Vietnam. French Indonesia

364

## Thailand

## Geographical distribution. Phytogeography

## Topographical divisions

## Asia

## Southeastern Asia -- Continued

- 365 Malaysia  
Including Malay Peninsula and Singapore  
For Sabah and Sarawak, see QK367
- 365.5 Malay Archipelago  
General works
- 366 New Guinea  
Including Irian Jaya and Papua New Guinea
- 367 Indonesia  
Including Borneo  
For Irian Jaya, see QK366  
Brunei, see QK367
- 368 Philippines
- Japan  
For Karafuto, see QK375.2
- 369 General works
- 369.3 Ryukyu Islands  
Including Okinawa-ken
- 370 Korea
- 371 Iran
- Russia in Asia  
Cf. QK321, Russia in Europe  
Cf. QK377, Armenia. Georgia. Azerbaijan
- 372 General works
- 374 Central Asia
- 375 Siberia
- 375.2 Sakhalin
- 376 Asia Minor  
Including Turkey in Asia
- 377 Armenia. Georgia. Azerbaijan
- 377.3 Cyprus
- 377.5 Syria
- 377.7 Lebanon
- 378 Israel. Palestine
- 378.5 Jordan
- 379 Iraq  
Kuwait, see QK353  
Saudi Arabia, see QK353
- Africa
- 381 General works  
By region or country
- 390 North Africa
- 391 Tropical Africa  
Eastern Africa  
Cf. QK401, East Africa
- 392 General works
- 392.4 Northeast Africa
- 393 West Africa
- 393.5 Central Africa  
Cf. QK400, Former British Central Africa

- Geographical distribution. Phytogeography  
 Topographical divisions  
 Africa  
 By region or country -- Continued
- 394 Southern Africa  
 395 Ethiopia. Eritrea  
 Former British possessions  
 395.8 General works  
 396 South Africa  
 400 Central Africa (General)  
 401 East Africa (General)  
 402.A-Z Other special, A-Z  
 402.B6 Botswana  
 402.G3 Gambia  
 402.G5 Ghana  
 402.K4 Kenya  
 402.L48 Lesotho  
 402.M28 Malawi  
 Mauritius, see QK429.M3  
 402.N5 Nigeria  
 402.R5 Rhodesia, Southern. Zimbabwe  
 402.S5 Sierra Leone  
 Somalia, see QK415  
 402.S8 Swaziland  
 402.U2 Uganda  
 402.Z3 Zambia  
 Zimbabwe, see QK402.R5  
 Mediterranean Region (General), see QK314.5  
 403 Egypt  
 404 Sudan  
 Former French possessions  
 405 Algeria  
 406 Tunisia  
 407 Madagascar  
 408 Senegal. Senegambia  
 409 Sahara  
 410.A-Z Other special, A-Z  
 410.B45 Benin  
 410.B85 Burkina Faso  
 Cameroon, see QK412  
 410.C4 Central African Republic  
 410.C5 Chad  
 (410.D3) Dahomey  
 see QK410.B45  
 410.D55 Djibouti  
 410.G3 Gabon  
 410.I8 Ivory Coast. Côte d'Ivoire  
 410.M38 Mauritania  
 Réunion, see QK429.M27  
 410.T64 Togo  
 Former German possessions  
 411 Tanzania  
 411.5 Rwanda

## Geographical distribution. Phytogeography

## Topographical divisions

## Africa

## By region or country

## Former German possessions -- Continued

Cameroon

Namibia. Southwest Africa

Eritrea

see QK395

Somalia

Zaire. Congo (Democratic Republic)

Congo (Brazzaville)

Liberia

Morocco

Mozambique

Angola

São Tomé and Príncipe

Guinea-Bissau

Canary Islands

Spanish Sahara

Fernando Po Island

Libya

## Indian Ocean islands

## General works

## By island or group of islands, A-Z

Aldabra Islands

Christmas Island. Kiritimati

Comoros

Madagascar, see QK407

Mascarene Islands

Including Réunion

Mauritius

Prince Edward Islands

Réunion, see QK429.M27

Seychelles

Sokotra

## Australia

## General works

New South Wales

Including Australian Capital Territory

Northern Territory

Queensland

South Australia

Tasmania

Victoria

Western Australia

## New Zealand and adjacent islands

## Pacific islands. Oceania

## General works

## By island or group of islands, A-Z

Cf. QK463, New Zealand and adjacent islands

Bonin Island

Clipperton Island

412

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429.A-Z

429.A44

429.C4

429.C6

429.M27

429.M3

429.P74

429.S4

429.S6

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473.A-Z

473.B6

473.C55

## Geographical distribution. Phytogeography

## Topographical divisions

## Pacific islands. Oceania

## By island or group of islands, A-Z -- Continued

- 473.E17 Easter Island  
 473.F5 Fiji Islands  
 473.G2 Galapagos Islands  
 473.G9 Guam  
 473.H4 Hawaiian Islands  
 473.J8 Juan Fernandez (Islands)  
 473.K6 Kommander Islands  
 473.M3 Makatea  
 473.M34 Mariana Islands  
 473.M36 Marshall Islands  
 473.M5 Micronesia  
 473.N4 New Caledonia  
 New Guinea, see QK366  
 Niihau, see QK473.H4  
 Niue (Island)  
 Oceania, see QK471 +  
 Okinawa Islands, see QK369.3  
 473.N57 Palmyra Island  
 473.P3 Pitcairn Island  
 473.P5 Polynesia  
 473.P75 Ponape Island  
 473.P78 Raiatea  
 473.R27 Rarotonga  
 473.R3 Samoan Islands  
 473.S3 Tahiti  
 473.T3 Tonga  
 473.T6

## Arctic regions

- 474 General works  
 474.2 Greenland  
 474.3 Svalbard  
 474.4 Antarctica  
 474.5

## Tropics

Cf. QK391, Tropical Africa

Cf. QK936, Tropical plant ecology

## Spermatophyta. Phanerogams

For general works, see general botany

## Trees and shrubs

Cf. SD434 +, Timber trees

- 474.8 Periodicals. Societies. Serials  
 474.83 Collected works (nonserial)  
 474.85 Congresses  
 474.87 Dictionaries and encyclopedias  
 475 General works, treatises, and textbooks  
 475.6 Pictorial works. Atlases  
 475.8 Juvenile works



- Spermatophyta. Phanerogams
  - Trees and shrubs -- Continued
    - 477 Special aspects of the subject as a whole
      - For historic trees, see D
      - For folklore of trees, see GR785
      - For national and state trees, see QK84.8+
      - For remarkable trees, see SD383+
    - Special topics, A-Z
      - 477.2.A6 Annual rings
        - Cf. CC78.3, Archaeology
        - Cf. QC884.2.D4, Dendroclimatology
      - Flowering, see QK830
      - Flowers, see QK653+
      - 477.2.I4 Identification
        - Rings, see QK477.2.A6
    - Arboretums. Fruticeta
      - 479 General works
      - 480.A-Z By region or country, A-Z
        - Under each country:*
        - .x *General works*
        - .x2A-.x2Z *Local or individual. By name, A-Z*
      - (481-493.5) Local
        - see QK108+
  - Systematic divisions
    - Gymnosperms
      - Including orders and higher (not A-Z)
      - 494 General works
      - 494.5.A-Z By family, A-Z
        - Class species and genera by family
        - Abietaceae, see QK494.5.P66
        - 494.5.A7 Araucariaceae
        - 494.5.C4 Cephalotaxaceae
        - Coniferae, see QK494
        - Coniferales, see QK494
        - 494.5.C975 Cupressaceae
        - 494.5.C995 Cycadaceae
        - 494.5.E5 Ephedraceae
        - 494.5.G48 Ginkgoaceae
        - 494.5.G565 Gnetaceae
        - 494.5.P58 Phyllocladaceae
        - 494.5.P66 Pinaceae
        - 494.5.P73 Podocarpaceae
        - 494.5.S8 Stangeriaceae
        - 494.5.T25 Taxaceae
        - 494.5.T3 Taxodiaceae
        - 494.5.W4 Welwitschiaceae
        - 494.5.Z35 Zamiaceae
    - Angiosperms
      - 495.A1 General works, treatises, and textbooks
        - For geographical treatment, see QK108+
      - 495.A12 Dicotyledons
        - Including orders and higher (not A-Z)

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.A14 Monocotyledons  
Including orders and higher (not A-Z)
- 495.A15-Z By family, A-Z  
Class species and genera by family
- 495.A1655 Acanthaceae  
495.A17 Aceraceae (Maple)  
495.A175 Achariaceae  
495.A176 Achatocarpaceae  
495.A177 Actinidiaceae  
495.A178 Adoxaceae (Moschatel)  
495.A185 Aextoxicaceae  
495.A26 Agavaceae  
495.A32 Aizoaceae (Ice plant)  
495.A34 Akaniaceae  
495.A36 Alangiaceae  
495.A4 Alismataceae (Water plantain)  
495.A48 Amaranthaceae (Amaranth)  
495.A484 Amaryllidaceae (Amaryllis)  
495.A485 Amborellaceae  
495.A498 Anacardiaceae (Cashew)  
495.A499 Ancistrocladaceae  
495.A6 Annonaceae (Pawpaw)  
Apiaceae, see QK495.U48  
495.A66 Apocynaceae (Dogbane)  
495.A667 Aponogetonaceae  
495.A67 Aquifoliaceae (Holly)  
495.A685 Araceae (Arum)  
495.A6853 Araliaceae (Ginseng)  
Arecaceae, see QK495.P17  
495.A688 Aristolochiaceae (Dutchman's pipe)  
495.A815 Asclepiadaceae (Milkweed)  
Asteraceae, see QK495.C74  
495.A9 Austrobaileyaceae  
495.B2 Balanopaceae  
495.B23 Balanophoraceae  
495.B25 Balsaminaceae (Touch-me-not)  
495.B256 Basellaceae (Madeira vine)  
495.B33 Bataceae  
495.B4 Begoniaceae (Begonia)  
495.B45 Berberidaceae (Barberry)  
495.B56 Betulaceae (Birch)  
495.B62 Bignoniaceae (Catalpa)  
495.B63 Bixaceae  
495.B7 Bombacaceae  
495.B73 Boraginaceae (Borage)  
Brassicaceae, see QK495.C9  
495.B75 Bretschneideraceae  
495.B76 Bromeliaceae (Bromelia)  
495.B78 Brunelliaceae

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.B785      Bruniaceae  
 495.B786      Brunoniaceae (Blue-pincushion)  
 495.B7865     Buddlejaceae  
 495.B79       Burmanniaceae  
 495.B8         Burseraceae (Incense tree)  
 495.B83       Butomaceae (Flowering rush)  
 495.B85       Buxaceae (Box)  
 495.B9         Byblidaceae  
 495.C11        Cactaceae (Cactus)  
 495.C1153     Caesalpinjiaceae  
 495.C1155     Callitrichaceae (Water starwort)  
 495.C15        Calycanthaceae (Spicebush)  
 495.C17        Calyceraceae  
 495.C18        Campanulaceae (Bellflower)  
               Candolleaceae, see QK495.S87  
 495.C182      Canellaceae  
 495.C196      Cannaceae (Canna)  
               Capparaceae, see QK495.C198  
 495.C198      Capparidaceae (Spiderflower)  
 495.C199      Caprifoliaceae (Honeysuckle)  
 495.C1995     Cardiopteridaceae  
 495.C1997     Caricaceae (Papaya)  
 495.C2         Caryocaraceae  
 495.C24        Caryphyllaceae (Pink)  
 495.C27        Casuarinaceae (Beefwood)  
 495.C385      Celastraceae (Staff tree)  
 495.C39        Centrolepidaceae  
 495.C395      Cephalotaceae  
 495.C4         Ceratophyllaceae (Hornwort)  
 495.C43        Cercidiphyllaceae  
 495.C46        Chenopodiaceae (Goosefoot)  
 495.C47        Chloranthaceae  
 495.C48        Chrysobalanaceae  
 495.C5         Cistaceae (Rockrose)  
 495.C55        Clethraceae  
               Clusiaceae, see QK495.G87  
 495.C555      Cneoraceae  
 495.C6         Cochlospermaceae  
 495.C65        Columelliaceae  
 495.C7         Combretaceae (White mangrove)  
 495.C73        Commelinaceae (Spiderwort)  
 495.C74        Compositae (Sunflower)  
 495.C76        Connaraceae  
 495.C78        Convolvulaceae (Morning-glory)  
 495.C783      Coriariaceae  
 495.C785      Cornaceae (Dogwood)  
 495.C786      Corsiaceae  
 495.C787      Corynocarpaceae  
 495.C79        Crassulaceae (Stonecrop)

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- |           |                                 |
|-----------|---------------------------------|
| 495.C797  | Crossosomataceae                |
| 495.C9    | Cruciferae (Mustard)            |
| 495.C93   | Crypteroniaceae                 |
| 495.C96   | Cucurbitaceae (Gourd)           |
| 495.C965  | Cunoniaceae (Lightwood)         |
| 495.C97   | Cyanastraceae                   |
| 495.C975  | Cyclanthaceae (Panama-hat palm) |
| 495.C98   | Cynomoriaceae                   |
| 495.C997  | Cyperaceae (Sedge)              |
| 495.C9973 | Cyrillaceae (Leatherwood)       |
| 495.D325  | Daphniphyllaceae                |
| 495.D33   | Datisceae (Durango root)        |
| 495.D34   | Davidiaceae                     |
| 495.D35   | Davidsoniaceae                  |
| 495.D4    | Degeneriaceae                   |
| 495.D42   | Desfontainiaceae                |
| 495.D43   | Dialypetalanthaceae             |
| 495.D435  | Diapensiaceae                   |
| 495.D44   | Dichapetalaceae                 |
| 495.D45   | Didiereaceae                    |
| 495.D46   | Didymelaceae                    |
| 495.D47   | Dilleniaceae                    |
| 495.D48   | Dioncophyllaceae                |
| 495.D54   | Dioscoreaceae (Yam)             |
| 495.D545  | Dipentodontaceae                |
| 495.D56   | Dipsacaceae (Teasel)            |
| 495.D564  | Dipterocarpaceae                |
| 495.D76   | Droseraceae (Sundew)            |
| 495.D9    | Duckeodendraceae                |
| 495.D95   | Dysphaniaceae                   |
| 495.E25   | Ebenaceae (Ebony)               |
| 495.E33   | Elaeagnaceae                    |
| 495.E35   | Elaeocarpaceae                  |
| 495.E37   | Elatinaceae (Waterwort)         |
| 495.E44   | Empetraceae (Crowberry)         |
| 495.E45   | Epacridaceae                    |
| 495.E64   | Eremolepidaceae                 |
| 495.E68   | Ericaceae (Heath)               |
| 495.E685  | Eriocaulaceae (Piperwort)       |
| 495.E695  | Eriospermaceae                  |
| 495.E82   | Erythroxylaceae (Coca)          |
|           | Escalloniaceae, see QK495.S3    |
|           | Eucalyptus, see QK495.M9        |
| 495.E84   | Eucommiaceae                    |
| 495.E85   | Eucryphiaceae                   |
| 495.E9    | Euphorbiaceae (Spurge)          |
| 495.E95   | Eupomatiaceae                   |
| 495.E96   | Eupteleaceae                    |
|           | Euryalaceae, see QK495.T4       |

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.F14 Fabaceae, see QK495.L52  
 495.F55 Fagaceae (Beech; Oak)  
 495.F58 Flacourtiaceae  
 495.F6 Flagellariaceae  
 495.F67 Fouquieriaceae (Ocotillo)  
 495.G26 Frankeniaceae (Alkali heath)  
 495.G27 Garryaceae (Silktassel bush)  
 495.G35 Geissolomataceae  
 495.G37 Gentianaceae (Gentian)  
 495.G38 Geosiridaceae  
 495.G4 Geraniaceae (Geranium)  
 495.G56 Gesneriaceae (African violet)  
 495.G65 Globulariaceae  
 495.G65 Gomortegaceae  
 495.G655 Goodeniaceae  
 495.G74 Gramineae (Grass)  
 495.G76 Grubbiaceae  
 495.G87 Guttiferae (St. Johnswort)  
 495.G877 Gyrostemonaceae  
 495.H15 Haemodoraceae (Bloodwort)  
 495.H2 Haloragaceae (Water milfoil)  
 495.H3 Haloragidaceae, see QK495.H2  
 495.H4 Hamamelidaceae (Witch hazel)  
 495.H42 Henriqueziaceae, see QK495.R85  
 495.H5 Hernandiaceae  
 495.H5 Himantandraceae  
 495.H65 Hippocastanaceae (Horse chestnut)  
 495.H66 Hippocrateaceae  
 495.H67 Hippuridaceae (Mare's tail)  
 495.H7 Hoplestigmataceae  
 495.H8 Houmiriaceae, see QK495.H8  
 495.H8 Humiriaceae  
 495.H84 Hydnoraceae  
 (495.H85) Hydrocaryaceae  
     see QK495.T66  
 495.H86 Hydrocharitaceae (Elodea)  
 495.H88 Hydrophyllaceae (Waterleaf)  
 495.H885 Hydrostachyaceae  
 495.H9 Hypoxidaceae  
 495.I25 Icacinaceae  
 495.I4 Illiciaceae (Anise tree)  
 495.I75 Iridaceae (Iris)  
 495.J85 Juglandaceae (Walnut)  
 495.J855 Julianiaceae  
 495.J87 Juncaceae (Rush)  
 495.J875 Juncaginaceae (Arrow grass)  
 495.K7 Krameriaceae  
 495.L152 Labiatae, see QK495.L25  
 Lacistemaceae

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

|           |                                  |
|-----------|----------------------------------|
| 495.L153  | Lactoridaceae                    |
| 495.L25   | Lamiaceae (Mint)                 |
| 495.L32   | Lardizabalaceae                  |
| 495.L375  | Lauraceae (Laurel)               |
| 495.L42   | Lecythidaceae (Brazil nut)       |
| 495.L46   | Leeaceae                         |
| 495.L52   | Legumes                          |
|           | Cf. QK495.C1153, Caesalpiniaceae |
|           | Cf. QK495.M545, Mimosaceae       |
| 495.L524  | Leitneriaceae (Corkwood)         |
| 495.L527  | Lemnaceae (Duckweed)             |
| 495.L528  | Lennoaceae                       |
| 495.L53   | Lentibulariaceae (Bladderwort)   |
| 495.L72   | Liliaceae (Lily)                 |
| 495.L73   | Limnanthaceae (Meadowfoam)       |
| 495.L74   | Linaceae (Flax)                  |
| 495.L76   | Lissocarpaceae                   |
| 495.L78   | Loasaceae (Evening star)         |
| 495.L785  | Loganiaceae (Butterfly bush)     |
| 495.L87   | Loranthaceae (Mistletoe)         |
| 495.L88   | Lowiaceae                        |
| 495.L9    | Lythraceae (Crepe myrtle)        |
| 495.M24   | Magnoliaceae (Magnolia)          |
| 495.M245  | Malesherbiaceae                  |
| 495.M26   | Malpighiaceae                    |
| 495.M27   | Malvaceae (Mallow)               |
| 495.M28   | Marantaceae (Arrowroot)          |
| 495.M285  | Marograviaceae                   |
| 495.M287  | Martyniaceae (Devil's claw)      |
| 495.M3    | Mayacaceae (Bogmoss)             |
| 495.M5    | Medusagynaceae                   |
| 495.M51   | Medusandraceae                   |
| 495.M514  | Melastomataceae (Meadow beauty)  |
| 495.M52   | Meliaceae (Mahogany)             |
| 495.M524  | Melianthaceae (Honey bush)       |
| 495.M537  | Menispermaceae (Moonseed)        |
| 495.M5375 | Menyanthaceae                    |
| 495.M545  | Mimosaceae                       |
| 495.M55   | Misodendraceae                   |
| 495.M6    | Molluginaceae                    |
| 495.M67   | Monimiaceae (Voldo)              |
| 495.M73   | Moraceae (Mulberry)              |
| 495.M74   | Moringaceae (Horseradish tree)   |
| 495.M78   | Musaceae (Banana)                |
|           | Musales, see QK495.A14           |
| 495.M8    | Myoporaceae                      |
| 495.M83   | Myricaceae (Wax myrtle)          |
| 495.M85   | Myristicaceae (Nutmeg)           |
| 495.M86   | Myrothamnaceae                   |

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.M87 Myrsinaceae  
 495.M9 Myrtaceae (Myrtle)  
 495.N3 Naiadaceae  
 Nelumbonaceae, see QK495.N97  
 495.N35 Nepenthaceae  
 495.N37 Neuradaceae  
 495.N6 Nolanaceae  
 495.N9 Nyctaginaceae (Four-o'clock)  
 495.N97 Nymphaeaceae (Waterlily)  
 495.N975 Nyssaceae (Sour gum)  
 495.O3 Ochnaceae  
 495.O35 Olacaceae (Tallow-wood)  
 495.O44 Oleaceae (Olive)  
 495.O446 Oliniaceae  
 495.O46 Onagraceae (Evening-primrose)  
 495.O62 Opiliaceae  
 495.O64 Orchidaceae (Orchid)  
 495.O74 Orobanchaceae (Broomrape)  
 495.O98 Oxalidaceae (Wood sorrel)  
 495.P15 Paeoniaceae  
 495.P17 Palmae (Palm)  
 495.P175 Pandaceae  
 495.P18 Pandanaceae (Screw pine)  
 495.P22 Papaveraceae (Poppy)  
 Papaverales, see QK495.A12  
 495.P28 Passifloraceae (Passionflower)  
 495.P42 Pedaliaceae (Benne)  
 495.P43 Penaeaceae  
 495.P44 Pentaphragmataceae  
 495.P445 Pentaphragmataceae  
 Peperomiaceae, see QK495.P67  
 495.P446 Peridiscaceae  
 495.P45 Philydraceae  
 495.P453 Phymaceae (Lopseed)  
 495.P454 Phytolaccaceae (Poke)  
 495.P5 Picrodendraceae  
 495.P67 Piperaceae (Pepper)  
 495.P7 Pittosporaceae  
 495.P714 Plantaginaceae (Plantain)  
 495.P72 Platanaceae (Sycamore)  
 495.P725 Plumbaginaceae (Leadwort)  
 Poaceae, see QK495.G74  
 495.P74 Podostomaceae (Riverweed)  
 495.P77 Polemoniaceae (Phlox)  
 495.P775 Polygalaceae (Milkwort)  
 495.P78 Polygonaceae (Buckwheat)  
 495.P783 Pontederiaceae (Pickerelweed)  
 495.P8 Portulacaceae  
 495.P83 Posidoniaceae

## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.P85 Potaliaceae, see QK495.L785  
 495.P95 Potamogetonaceae (Pondweed)  
 495.P957 Primulaceae (Primrose)  
 495.P958 Proteaceae (Silk oak)  
 495.P997 Punicaceae (Pomegranate)  
 495.Q5 Pyrolaceae  
 495.R15 Quiinaceae  
 495.R215 Rafflesiaceae  
 Ranales, see QK495.A12  
 495.R3 Ranunculaceae (Buttercup)  
 Ranunculales, see QK495.A12  
 495.R4 Rapateaceae  
 495.R42 Resedaceae (Mignonette)  
 495.R45 Restionaceae  
 495.R46 Rhamnaceae (Coffeeberry)  
 495.R465 Rhizophoraceae (Mangrove)  
 495.R468 Rhoadales, see QK495.A12  
 495.R78 Rhoipteleaceae  
 495.R85 Roridulaceae  
 495.R956 Rosaceae (Rose)  
 495.R98 Rubiaceae (Madder)  
 495.S15 Ruppiceae  
 495.S16 Rutaceae (Citrus)  
 495.S165 Sabiaceae  
 495.S18 Salicaceae (Willow)  
 495.S19 Salvadoraceae (Toothbrush tree)  
 495.S2 Santalaceae (Sandalwood)  
 495.S225 Sapindaceae (Soapberry)  
 495.S227 Sapotaceae (Chicle)  
 495.S23 Sarcolaenaceae  
 495.S24 Sarcospermataceae  
 495.S27 Sargentodoxaceae  
 495.S3 Saraceniaceae (Pitcher plant)  
 495.S35 Saururaceae (Lizard's-tail)  
 495.S353 Saxifragaceae (Saxifrage)  
 495.S43 Scheuchzeriaceae  
 495.S45 Schisandraceae (Bay-star vine)  
 495.S47 Scitamineae, see QK495.A14  
 495.S59 Scrophulariaceae (Snapdragon)  
 495.S65 Scyphostegiaceae  
 495.S7 Scytopetalaceae  
 495.S74 Simaroubaceae (Tree of heaven)  
 495.S745 Smilacaceae  
 495.S7455 Solanaceae (Nightshade)  
 495.S7456 Sonneratiaceae  
 495.S76 Sparganiaceae (Bar-reed)  
 Sphaerosepalaceae  
 Sphenocleaceae  
 Stachyuraceae



## Spermatophyta. Phanerogams

## Systematic divisions

## Angiosperms

## By family, A-Z -- Continued

- 495.S765 Stackhousiaceae  
 495.S77 Staphyleaceae (Bladdernut)  
 495.S78 Stemonaceae  
 495.S8 Sterculiaceae (Cacao)  
 495.S85 Strasburgeriaceae  
 495.S87 Stylidiaceae  
 495.S9 Styracaceae (Silverbell tree)  
 495.S95 Symplocaceae (Sweetleaf)  
 495.T3 Taccaceae  
 495.T35 Tamaricaceae (Tamarisk)  
 495.T355 Tetracentraceae  
 495.T4 Theaceae (Tea)  
 495.T45 Theligonaceae  
 495.T457 Theophrastaceae (Joewood)  
 495.T46 Thurniaceae  
 495.T48 Thymelaeaceae  
 495.T5 Tiliaceae (Linden)  
 495.T6 Tovariaceae  
 495.T66 Trapaceae (Water chestnut)  
 495.T7 Tremandraceae  
 495.T73 Trigoniaceae  
 495.T74 Trimeniaceae  
 495.T745 Triuridaceae  
 495.T75 Trochodendraceae  
 495.T77 Tropaeolaceae (Nasturtium)  
 495.T8 Turneraceae  
 495.T9 Typhaceae (Cattail)  
 495.U4 Ulmaceae (Elm)  
 495.U48 Umbelliferae (Parsley)  
 495.U7 Urticaceae (Nettle)  
 495.V3 Valerianaceae  
 495.V4 Velloziaceae  
 495.V48 Verbenaceae (Verbena)  
 495.V5 Violaceae (Violet)  
 495.V55 Vitaceae (Grape)  
 495.V6 Vochysiaceae  
 495.W5 Winteraceae  
 495.X3 Xanthorrhoeaceae  
 495.X9 Xyridaceae (Yellow-eyed grass)  
 495.Z3 Zannichelliaceae  
 495.Z65 Zingiberaceae (Ginger)  
 Zosteraceae, see QK495.P85  
 495.Z9 Zygophyllaceae (Creosote-bush)

## Cryptogams

## Including Archegoniatae

## For bacteria, see QR1 +

- 504 Periodicals, societies, congresses, serial  
collections, yearbooks  
 505 General works, treatises, and textbooks

## Cryptogams -- Continued

- 505.5 Juvenile works  
 506 Anatomy, physiology, etc.  
 507 Classification. Systematic works  
 Local  
 509 North America  
     United States  
 510 General works  
 511.A-Z By region or state, A-Z  
     Canada  
       511.2 General works  
       511.3.A-Z By region or province, A-Z  
     Latin America  
       511.7 General works  
       Mexico  
         512 General works  
         512.2.A-Z By region or state, A-Z  
         512.4 Central America (Table Q3)  
         512.5 West Indies. Caribbean Area (Table Q3)  
         512.6 South America (Table Q3)  
       Europe  
         512.7 General works  
         513 Great Britain  
         514.A-Z Other European regions or countries, A-Z  
         515 Asia (Table Q3)  
         516 Africa (Table Q3)  
         517 Australia  
         517.5 New Zealand  
         518 Pacific islands (Table Q3)  
         519 Arctic regions  
         519.5 Antarctica  
 Pteridophyta (Ferns, etc.)  
 520 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 521 Anatomy, physiology, etc.  
 522 General works, treatises, and textbooks  
 522.5 Juvenile works  
 523 Classification. Systematic works  
 523.3 Catalogs and collections  
 524.A-Z Systematic divisions, A-Z  
 524.A25 Actiniopteridaceae  
 524.A29 Adiantaceae  
 524.A65 Aspidiaceae  
 524.A7 Aspleniaceae  
 524.A76 Athyriaceae  
 524.A94 Azollaceae  
 524.C9 Cyatheaceae  
 524.D5 Dennstaedtiaceae  
 524.E6 Equisetaceae  
 524.H9 Hymenophyllaceae  
 524.I8 Isoetaceae  
 524.L64 Lomariopsidaceae  
 524.L9 Lycopodiaceae

## Cryptogams

## Pteridophyta (Ferns, etc.)

## Systematic divisions, A-Z -- Continued

524.M3

Marattiaceae

524.M4

Marsileaceae

524.O7

Ophioglossaceae

524.O8

Osmundaceae

524.P3

Parkeriaceae

524.P7

Polypodiaceae

524.P77

Psilotaceae

Pteridaceae, see QK524.A29

524.S33

Salviniaceae

524.S35

Schizaeaceae

524.S46

Selaginellaceae

524.T54

Thelypteridaceae

## Geographical distribution

For particular taxa, see QK524.A +

524.35

General works

Physiographic divisions (General)

524.37

Water

Land, see QK524.35

Topographic divisions

America

524.4

General works

North America

524.5

General works

524.7

Great Lakes region

United States

525

General works

525.5.A-Z

By region or state, A-Z

Canada

525.6

General works

525.7.A-Z

By region or province, A-Z

Latin America

525.8

General works

Mexico

525.85

General works

525.9.A-Z

By region or state, A-Z

526

Central America (Table Q3)

526.2

West Indies. Caribbean area (Table Q3)

526.4

South America (Table Q3)

Europe

526.5

General works

527

Great Britain

528.A-Z

Other European regions or countries, A-Z

529

Asia (Table Q3)

530

Africa (Table Q3)

531

Australia

531.5

New Zealand

532

Pacific islands (Table Q3)

## Bryophyta. Bryology

532.4

Periodicals. Societies. Serials

532.42

Congresses

- Cryptogams  
 Bryophyta. Bryology -- Continued
- 532.5 Dictionaries and encyclopedias
  - History
    - 532.6 General works
    - 532.65.A-Z By region or country, A-Z
  - Biography
    - 532.7 Collective
    - 532.75.A-Z Individual, A-Z
  - 532.8 Directories
  - 533 General works, treatises, and textbooks
  - 533.3 Juvenile works
  - 533.35 Addresses, essays, lectures
  - 533.6 Anatomy, physiology, etc.
  - 533.7 Classification. Systematic works
  - 533.74 Catalogs and collections
  - By region or country
    - United States
      - 533.8 General works
      - 533.82.A-Z By region or state, A-Z
      - 533.84.A-Z Other regions or countries, A-Z
  - Musci (Mosses)
    - 534 Periodicals, societies, congresses, serial collections, yearbooks
    - 535 Anatomy, physiology, etc.
    - 537 General works, treatises, and textbooks
    - 537.5 Juvenile works
    - 538 Classification. Systematic works
    - 538.4 Catalogs and collections
    - 539.A-Z Systematic divisions, A-Z
      - 539.A6 Amblystegiaceae
      - 539.B68 Brachytheciaceae
      - 539.B7 Bryaceae
      - 539.B97 Buxbaumiaceae
      - 539.D5 Dicranaceae
      - 539.F5 Fissidentaceae
      - 539.F6 Fontinalaceae
      - 539.F98 Funariaceae
      - 539.G7 Grimmiaceae
      - 539.H68 Hookeriaceae
      - 539.H95 Hypnobryales
      - 539.M68 Mniaceae
      - 539.O7 Orthotrichaceae
      - 539.P7 Plagiotheciaceae
      - 539.P78 Polytrichaceae
      - 539.P8 Pottiaceae
      - 539.P93 Pterobryaceae
      - 539.S46 Seligeriaceae
      - 539.S75 Sphagnaceae
      - 539.S76 Splachnaceae
      - 539.S84 Stereophyllaceae
      - 539.T58 Timmiaceae
  - Local

- Cryptogams
  - Bryophyta. Bryology
  - Musci (Mosses)
  - Local -- Continued
  - America
    - 540.4 General works
    - North America
      - 540.5 General works
      - 540.7 Great Lakes region
      - United States
        - 541 General works
        - 541.5 By region or state, A-Z
        - Canada
          - 541.6 General works
          - 541.7 By region or province, A-Z
          - 541.8 Latin America
            - Mexico
              - 541.85 General works
              - 541.9 By region or state, A-Z
              - 542 Central America (Table Q3)
              - 542.2 West Indies. Caribbean area (Table Q3)
              - 542.4 South America (Table Q3)
              - 542.45 Atlantic islands (Table Q3)
            - Europe
              - 542.5 General works
              - 543 Great Britain
              - 544.A-Z Other European regions or countries, A-Z
            - 545 Asia (Table Q3)
            - 546 Africa (Table Q3)
            - 547 Australia
            - 547.5 New Zealand
            - 548 Pacific islands (Table Q3)
            - 549 Arctic regions
            - 549.5 Antarctica
  - Hepaticae (Liverworts)
    - 551 Anatomy, physiology, etc.
    - 553 General works, treatises, and textbooks
    - 554 Classification. Systematic works
    - 555.A-Z Systematic divisions, A-Z
      - 555.A3 Adelanthaceae
      - 555.A5 Aneuraceae
      - (555.A6) Anthocerotaceae
        - see QK563.75 +
      - 555.B7 Bryopteridaceae
      - 555.D5 Dilaenaceae
      - 555.F6 Fossombroniaceae
      - 555.F9 Frullaniaceae
      - 555.G44 Geocalycaceae
      - 555.G7 Grimaldiaceae
      - 555.H35 Haplomitriaceae
      - 555.J9 Jungermanniaceae
      - 555.L37 Lejeuneaceae
      - 555.L4 Lepidoziaceae

- Cryptogams  
 Bryophyta. Bryology  
 Hepaticae (Liverworts)  
 Systematic divisions, A-Z -- Continued
- 555.L58 Lophocoleaceae  
 555.L6 Lophoziaceae  
 555.M2 Marchantiaceae  
 555.M4 Metzgeriaceae  
 555.P6 Porellaceae  
 555.R5 Ricciaceae  
 555.T3 Targioniaceae
- Local
- America
- 555.4 General works  
 North America  
 555.5 General works  
 555.7 Great Lakes region  
 United States  
 556 General works  
 556.5.A-Z By region or state, A-Z  
 Canada  
 556.6 General works  
 556.7.A-Z By region or province, A-Z
- Latin America  
 556.8 General works  
 Mexico  
 556.85 General works  
 556.9.A-Z By region or state, A-Z  
 557 Central America (Table Q3)  
 557.2 West Indies. Caribbean area (Table Q3)  
 557.4 South America (Table Q3)
- Europe  
 557.5 General works  
 558 Great Britain  
 559.A-Z Other European regions or countries, A-Z  
 560 Asia (Table Q3)  
 561 Africa (Table Q3)  
 562 Australia  
 562.5 New Zealand  
 563 Pacific islands (Table Q3)  
 563.5 Arctic regions  
 563.7 Antarctica
- Hornworts
- 563.75 Periodicals, societies, congresses, serial publications  
 563.77 Anatomy, physiology, etc.  
 563.8 General works, treatises, and textbooks  
 563.84 Classification. Systematic works  
 563.85.A-Z By genus, A-Z  
 563.85.A57 Anthoceros  
 563.87.A-Z By region or country, A-Z
- 564 Algae. Algology  
 Periodicals. Societies. Serials

- Cryptogams
- Algae. Algology -- Continued
- 564.3 Congresses
- 564.5 Collected works (nonserial)
- 564.6 Dictionaries and encyclopedias
- History
- 564.7 General works
- 564.73 By region or country, A-Z
- Biography
- 564.75 Collective
- 564.77 Individual, A-Z
- 564.8 Directories
- Anatomy, physiology, etc.
- 565 General works
- 565.2 Laboratory cultures and technique
- 565.5 Genetics
- 566 General works, treatises, and textbooks
- 566.3 Popular works
- 566.5 Juvenile works
- 567 Classification. Systematic works
- 567.5 Catalogs and collections
- 568.A-Z Special topics, A-Z
- 568.B55 Blooms
- 568.M52 Microalgae
  - For geographic treatment, see QK570 +
  - For systematic treatment, see QK569.A +
- 568.T67 Toxic algae
  - Including toxic marine algae
- 569.A-Z Systematic divisions, A-Z
- 569.A27 Acrochaetiaceae
- Audouinellaceae, see QK569.A27
- Bacillariaceae, see QK569.D54
- Bangiaceae
- Batrachospermaceae
- Caulerpaceae
- Centrales
- Ceramiaceae
- Chaetangiaceae
- Chaetophoraceae
- 569.C45 Chaetophorales
- 569.C47 Characeae
- 569.C48 Characiaceae
- 569.C483 Charophyta
- 569.C486 Chlamydomonadaceae
- 569.C49 Chlorellaceae
- 569.C494 Chlorococcaceae
- 569.C496 Chloroccales
- 569.C6 Chlorophyta
- 569.C617 Chromophyta
- 569.C62 Chrysophyceae
- 569.C624 Cladophoraceae
- 569.C63 Coccolithophoridaceae
- 569.C65 Codiaceae

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## Algae. Algology

## Systematic divisions, A-Z -- Continued

- 569.C73 Coleochaetaceae  
 569.C8 Corallinaceae  
 569.C95 Cryptonemiaceae  
 569.C956 Cyanidiaceae  
 Cyanophyta, see QR99.6 +  
 569.C97 Cystoseiraceae  
 569.D3 Dasyaceae  
 569.D33 Dasycladaceae  
 569.D34 Dasycladales  
 569.D4 Delesseriaceae  
 569.D43 Desmerestiaceae  
 569.D46 Desmidiaceae  
 Desmidiales, see QK569.D46  
 Desmidiales (Zygnematales), see QK569.Z82  
 569.D54 Diatomaceae  
 569.D56 Dinoflagellates  
 Dunaliellaceae, see QK569.P65  
 569.E9 Euglenaceae  
 569.E93 Euglenids  
 569.F64 Florideae  
 569.F95 Fucaceae  
 569.G4 Gelidiaceae  
 569.G42 Gelidiales  
 569.G5 Gigartinaceae  
 569.G8 Gracilariaceae  
 569.H44 Hemidiscaceae  
 569.H46 Heteropodiaceae  
 569.K3 Kallymeniaceae  
 569.L2 Laminariaceae  
 569.L34 Laminariales  
 569.L5 Lemnaceae  
 569.L53 Lessoniaceae  
 569.L56 Lithodermataceae  
 569.M27 Mallomonadaceae  
 569.M87 Melanophyceae, see QK569.P5  
 Myrionemataceae  
 Myxophyceae, see QR99.6 +  
 569.N37 Naviculaceae  
 Nostocaceae, see QR99.7.N67  
 569.O4 Oedogoniaceae. Oedogoniales  
 569.O6 Oocystaceae  
 Oscillatoriaceae, see QR99.7.O82  
 569.P33 Peridinales  
 569.P35 Peyssonneliaceae  
 569.P5 Phaeophyta  
 569.P54 Phylloporaceae  
 569.P65 Polyblepharidaceae  
 569.P9 Prasiolaceae  
 569.P93 Prochloraceae



## Cryptogams

## Algae. Algology

## Systematic divisions, A-Z -- Continued

- (569.P94) Protococcaceae  
see QK569.C486
- 569.P97 Protosiphonaceae
- 569.P974 Prymnesiophyceae
- 569.P98 Pseudoanemoniaceae
- 569.R37 Rhodomelaceae
- 569.R4 Rhodophyta. Rhodophyceae
- 569.R6 Rhodymeniaceae
- 569.S2 Sargassaceae
- 569.S32 Scenedesmaceae
- 569.S36 Schizophyceae, see QR99.6 +
- 569.S43 Scytosiphonaceae
- 569.S43 Selenastraceae
- 569.S56 Siphonocladaceae
- 569.S7 Sphacelariaceae
- 569.T47 Stigonemataceae, see QR99.7.S85
- 569.T73 Thalassiosiraceae
- 569.U5 Trentepohliaceae
- 569.U55 Ulotrichaceae
- 569.U6 Ulvaceae
- 569.V3 Ulvales
- 569.V35 Valoniaceae
- 569.V9 Vaucheriaceae
- 569.V93 Volvocaceae
- 569.Z8 Volvocales
- 569.Z82 Zygnemataceae
- Zygnematales
- Geographical distribution
- For particular taxa, see QK569.A +
- 570 General works
- Physiographic divisions (General)
- 570.2 Marine  
Cf. SH390+, Fisheries
- 570.25 Freshwater
- Topographical divisions
- America
- 570.4 General works
- North America
- 570.5 General works
- 570.7 Great Lakes region
- United States
- 571 General works
- 571.5.A-Z By region or state, A-Z
- Canada
- 571.6 General works
- 571.7.A-Z By region or province, A-Z
- Latin America
- 571.8 General works
- Mexico
- 571.85 General works

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 Geographical distribution  
 Topographical divisions  
 America  
 Latin America  
 Mexico -- Continued  
 571.9.A-Z By region or state, A-Z  
 572 Central America (Table Q3)  
 572.2 West Indies. Caribbean area (Table Q3)  
 572.4 South America (Table Q3)  
 Atlantic Ocean and islands  
 572.48 General works  
 572.5.A-Z By region, group of islands, or island, A-Z  
 Europe  
 572.9 General works  
 573 Great Britain  
 574.A-Z Other European regions or countries, A-Z  
 575 Asia (Table Q3)  
 576 Africa (Table Q3)  
 576.5 Indian Ocean  
 577 Australia  
 577.5 New Zealand  
 577.8 Pacific Ocean  
 578 Pacific Islands (Table Q3)  
 580 Arctic regions  
 580.5 Antarctica
- Lichens  
 580.7 Periodicals. Societies. Serials  
 580.74 Congresses  
 580.75 Collected works (nonserial)  
 580.77 Dictionaries and encyclopedias  
 Biography  
 580.85 Collective  
 580.86.A-Z Individual, A-Z  
 581 Anatomy, physiology, etc.  
 583 General works, treatises, and textbooks  
 584 Classification. Systematic works  
 584.2 Catalogs and collections  
 585.A-Z Systematic divisions, A-Z  
 585.C28 Caliciales  
 585.C3 Caloplacaceae  
 585.C6 Cladoniaceae  
 585.C65 Collemataceae  
 585.G8 Graphidaceae  
 585.H48 Heppiaceae  
 585.L37 Lecanoraceae  
 585.L4 Lecidiaceae  
 585.M44 Megalosporaceae  
 585.O63 Opegraphaceae  
 585.P17 Pannariaceae  
 585.P2 Parmeliaceae  
 585.P37 Pertusariaceae

## Cryptogams

## Lichens

## Systematic divisions, A-Z -- Continued

- 585.P45 Physciaceae  
 585.R7 Roccellaceae  
 585.S78 Stereocaulaceae  
 585.S8 Stictaceae  
 585.T44 Teloschistaceae  
 585.T48 Thelenellaceae  
 585.T5 Thelotremataceae  
 585.T7 Trypetheliaceae  
 585.U5 Umbilicariaceae  
 585.V4 Verrucariaceae

## Local

## America

- 586.4 General works  
 North America  
 586.5 General works  
 586.7 Great Lakes region  
 United States  
 587 General works  
 587.5.A-Z By region or state, A-Z  
 Canada  
 587.6 General works  
 587.7.A-Z By region or province, A-Z  
 Latin America  
 587.8 General works  
 Mexico  
 587.85 General works  
 587.9.A-Z By region or state, A-Z  
 588 Central America (Table Q3)  
 588.2 West Indies. Caribbean area (Table Q3)  
 588.4 South America (Table Q3)  
 Atlantic Ocean and islands  
 588.47 General works  
 588.48.A-Z By region, group of islands or island, A-Z  
 Europe  
 588.5 General works  
 589 Great Britain  
 590.A-Z Other European regions or countries, A-Z  
 591 Asia (Table Q3)  
 592 Africa (Table Q3)  
 593 Australia  
 593.5 New Zealand  
 594 Pacific islands (Table Q3)  
 Arctic regions  
 597 General works  
 597.2 Greenland  
 597.3 Spitzbergen  
 597.5 Antarctica  
 597.7 Tropics

## Cryptogams -- Continued

## Fungi

- Cf. QR111+, Soil fungi
- Cf. QR245+, Pathogenic fungi
- Cf. SB733, Phytopathogenic fungi
- Cf. TA423.2+, Decay of wood
- 600 Periodicals. Societies. Serials
- 600.2 Collected works (nonserial)
- 600.3 Congresses
- 600.35 Dictionaries and encyclopedias
- Biography
- 600.44 Collective
- 600.45.A-Z Individual, A-Z
- Study and teaching. Research
- 600.47 General works
- 600.473.A-Z By region or country, A-Z
- 600.476 Experiments
- 600.478 Laboratory manuals
- 600.48 Collection and preservation
- Museums. Exhibitions
- 600.5 General works
- 600.53.A-Z By region or country, A-Z
- Apply table at QK73.A-Z
- Catalogs and collections
- 600.7 General works
- 600.73.A-Z By region or country, A-Z
- Apply table at QK73.A-Z
- 601 Anatomy, physiology, etc.
- 602 Genetics, variation, etc.
- 603 General works, treatises, and textbooks
- 603.2 Classification. Systematic works
- 603.5 Juvenile works
- 604 Special aspects of the subject as a whole
- 604.2.A-Z Special topics, A-Z
- 604.2.A52 Anaerobic fungi
- Aquatic fungi, see QK617.8+
- 604.2.C64 Communities
- 604.2.C66 Conservation
- 604.2.E26 Ecology
- 604.2.E27 Economic aspects
- 604.2.E28 Ecophysiology
- Ectomycorrhizas, see QK604.2.M92
- Edible fungi, see QK617
- Endomycorrhizas, see QK604.2.M92
- 604.2.E53 Endophytic fungi
- 604.2.E85 Evolution
- 604.2.H34 Hallucinogenic mushrooms
- 604.2.I36 Identification
- 604.2.M64 Molecular biology
- 604.2.M89 Mycoparasitism
- 604.2.M92 Mycorrhizas. Mycorrhizal fungi
- Including ectomycorrhizas and endomycorrhizas
- Cf. SB106.M83, Plant culture

- Cryptogams
- Fungi
  - Special topics, A-Z -- Continued
  - 604.2.N45    Nematode-destroying fungi
  - Pathogenic fungi, see QR245+
  - 604.2.P45    Phytopathogenic fungi
    - Cf. SB733, Control of phytopathogenic fungi
    - and fungal diseases of plants
  - 604.2.P56    Pleomorphic fungi
  - Poisonous fungi, see QK617
  - 604.2.S25    Saprophytic fungi
  - Soil fungi, see QR111+
  - 604.2.W65    Wood-decaying fungi
    - Cf. TA423.2+, Deterioration and
    - preservation of wood
  - 604.2.W66    Wood-staining fungi
    - Cf. TA423.4, Deterioration and preservation
    - of wood
  - Yeast fungi, see QK617.5
- Local
  - America
    - 604.4        General works
    - North America
      - 604.5        General works
      - 604.7        Great Lakes region
      - United States
        - 605          General works
        - 605.5.A-Z    By region or state, A-Z
        - Canada
          - 605.6        General works
          - 605.7.A-Z    By region or state, A-Z
      - Latin America
        - 605.8        General works
        - Mexico
          - 605.85      General works
          - 605.9.A-Z    By region or state, A-Z
          - 606          Central America (Table Q3)
          - 606.2        West Indies. Caribbean area (Table Q3)
          - 606.4        South America (Table Q3)
      - Europe
        - 606.5        General works
        - 607          Great Britain
        - 608.A-Z      Other European regions or countries, A-Z
      - Asia (Table Q3)
      - 609          Africa (Table Q3)
      - 610          Australia
      - 611          New Zealand
      - 611.5        Pacific islands (Table Q3)
      - 612          Arctic regions
      - 615          Antarctica
      - 615.5        Tropics
      - 615.7        Tropics

## Cryptogams

## Fungi -- Continued

- 617 Edible and poisonous fungi. Mushrooms (Popular works)  
Cf. SB352.85+, Culture
- 617.5 Yeast fungi (General)  
Cf. QR151+, Microorganisms of fermentation  
Cf. TP433, Food processing and manufacture  
Cf. TP580+, Brewing  
For geographic treatment, see QK604.4+  
For systematic treatment, see QK621+
- Aquatic fungi (General)  
For geographic treatment, see QK604.4+  
For systematic treatment, see QK621+
- 617.8 General works
- 618 Marine fungi (General)
- 618.2 Freshwater fungi (General)
- Systematic divisions
- Phycomycetes
- 621.A1 General works, treatises, and textbooks
- 621.A2-Z Special, A-Z
- 621.B37 Basidiobolus
- 621.B6 Blastocladiaceae
- 621.C48 Choanephoraceae
- 621.C5 Chytridiaceae
- 621.C63 Coelomomycetaceae
- 621.CE3 Eccrinales
- 621.E47 Endogonaceae
- 621.E5 Entophlyctaceae
- 621.L44 Leptomitales
- Molds, see QK600+
- 621.M6 Monoblepharidaceae
- 621.M64 Mortierellaceae
- 621.M94 Mucoraceae
- 621.M96 Mucorales
- 621.O4 Olpidiaceae
- Oomycetes, see QK621.A1
- 621.P45 Peronosporaceae
- 621.P47 Peronosporales
- 621.P9 Pythiaceae
- 621.R5 Rhipidiaceae
- 621.S24 Saprolegniaceae
- 621.S25 Saprolegniales
- 621.S9 Synchytriaceae
- 621.T45 Thraustochytriaceae
- Trichomycetes, see QK621.A1
- 621.W6 Woroniaceae
- Ascomycetes
- 623.A1 General works, treatises, and textbooks
- 623.A2-Z Special, A-Z
- 623.A8 Ascobolaceae
- Aspergillus, see QK625.M7
- 623.C36 Capnodiaceae

## Cryptogams

## Fungi

## Systematic divisions

## Ascomycetes

## Special, A-Z -- Continued

- 623.C53 Chaetomiaceae  
 623.C55 Clavicipitaceae  
 623.C57 Clavicipitales  
 623.D47 Dermateaceae  
 623.D55 Diaporthales  
 Discomycetes, see QK623.A1  
 623.D72 Dothideaceae  
 623.D74 Dothideales  
 623.E4 Elaphomycetaceae  
 623.E56 Endomycetaceae  
 623.E7 Erysiphaceae  
 623.E73 Erysiphales  
 (623.E85) Eurotiaceae  
     see QK623.T75  
 623.G55 Gnomoniaceae  
 623.G94 Gymnoascaceae  
 623.H35 Helotiaceae  
 623.H4 Helvellaceae  
 623.H76 Hyaloscyphaceae  
 623.H86 Hypocreaceae  
 623.H87 Hypomycetaceae  
 623.H88 Hysteriaceae  
 623.L3 Laboulbeniales  
 623.L39 Leotiaceae  
 623.L6 Lophiostomaceae  
 623.M38 Melanconidaceae  
 623.M39 Melanommatiales  
 623.M4 Meliolaceae  
 623.M5 Microthyriaceae  
 623.M65 Morchellaceae  
 623.O6 Ophiostomataceae  
 Patellariaceae, see QK623.P5  
 Penicillium, see QK625.M7  
 623.P5 Pezizaceae  
 623.P53 Pezizales  
 623.P6 Phacidiaceae  
 623.P63 Phyllachoraceae  
 623.P66 Pleosporaceae  
 623.P68 Pleosporales  
 623.P8 Pseudosphaeriaceae  
 Pyrenomycetes, see QK623.A1  
 623.P93 Pyrenulaceae  
 623.P95 Pyronemataceae  
 623.R45 Rhytismataceae  
 623.S23 Saccharomycetaceae  
 623.S27 Sarcosomataceae  
 623.S3 Sclerotiniaceae  
 623.S6 Sordariaceae

## Cryptogams

## Fungi

## Systematic divisions

## Ascomycetes

## Special, A-Z -- Continued

- 623.S73 Sphaeriaceae
- 623.S76 Sphaeriales
- 623.T3 Taphrinaceae
- 623.T54 Thermoascaceae
- 623.T75 Trichocomaceae
- 623.T8 Tuberales
- 623.V35 Valsaceae
- 623.V46 Venturiaceae
- 623.X9 Xylariaceae
- 623.Z64 Zopfiaceae

## Fungi imperfecti (Deuteromycetes)

## General works, treatises, and textbooks

## Special, A-Z

- 625.A1 Agonomycetaceae
- 625.A2-Z Cryptococcaceae
- 625.A48 Dematiaceae
- 625.C76 Discellaceae, see QK625.E9
- 625.D4 Excipulaceae
- 625.E9 Hyphomycetes, see QK625.A1
- 625.L4 Leptostromataceae
- 625.M4 Melanconiaceae
- Melanconiales, see QK625.M4
- 625.M7 Moniliaceae
- 625.M74 Moniliales
- 625.M9 Mucedinaceae, see QK625.M7
- Mycelia Sterilia
- Nectrioidaceae, see QK625.Z9
- Phyllostictaceae, see QK625.S5
- Phyllostictales, see QK625.S6
- 625.R4 Rhizoctonia
- Sphaeroidaceae, see QK625.S5
- 625.S5 Sphaeropsidaceae
- 625.S6 Sphaeropsidales
- Stilbaceae, see QK625.S7
- 625.S7 Stilbellaceae
- 625.T8 Tuberculariaceae
- 625.Z9 Zythiaceae

## Basidiomycetes

## General works, treatises, and textbooks

## Uredinales (Rusts)

## General works, treatises, and textbooks

## Special, A-Z

## Pucciniaceae

## Ustilaginales (Smuts)

## General works, treatises, and textbooks

## Special, A-Z

## Tilletiaceae

## Ustilaginaceae



- Cryptogams
- Fungi
- Systematic divisions
- Basidiomycetes -- Continued
- Other, A-Z
- 629.A-Z
- 629.A4 Agaricaceae
- 629.A44 Agaricales
- 629.A53 Amanitaceae
- 629.A58 Aphyllorphorales
- 629.A8 Auriculariaceae
- 629.B58 Bolbitiaceae
- 629.B6 Boletaceae
- 629.C3 Cantharellaceae
- 629.C6 Clavariaceae
- 629.C785 Corticiaceae
- 629.C787 Cortinariaceae
- 629.D2 Dacrymycetaceae
- 629.E56 Entolomataceae
- 629.E9 Exobasidiaceae
- 629.F37 Favolaschiaceae
- 629.G18 Ganodermataceae
- 629.G4 Gasteromycetes, see QK626 +
- 629.G6 Geastraceae
- 629.H8 Geastrales, see QK629.L92
- 629.H86 Gomphaceae
- 629.H89 Hydnnaceae
- 629.H86 Hygrophoraceae
- 629.H89 Hymenochaetaceae
- 629.H9 Hymenogastraceae
- 629.L33 Hymenomycetes, see QK626 +
- 629.L9 Lachnocladiaceae
- 629.L92 Lycoperdaceae
- 629.M4 Lycoperdales
- 629.N5 Melanogastraceae
- 629.P6 Nidulariaceae
- 629.P63 Phallaceae
- 629.P7 Phallales
- 629.R87 Polyporaceae
- 629.S4 Rhodophyllaceae, see QK629.E56
- 629.S73 Russulaceae
- 629.S76 Septobasidiaceae
- 629.S77 Stereaceae
- 629.T4 Strobilomycetaceae
- 629.T67 Strophariaceae
- 629.T7 Thelephoraceae
- 629.T73 Tremellaceae
- 629.T8 Tremellales
- (633) Tricholomataceae
- 635.A1 Tulasnellaceae
- Myxobacterales
- see QR82.M95
- Myxomycetes (Slime molds)
- General works, treatises, and textbooks

- Cryptogams  
 Fungi  
 Systematic divisions  
 Myxomycetes (Slime molds) -- Continued  
 Special, A-Z  
 635.A2-Z Ceratiomyxaceae  
 635.C4 Dictyosteliaceae  
 635.D5 Dictyosteliales  
 635.D53 Physaraceae  
 635.P5 Plasmodiophoraceae  
 635.P6 Plasmodiophorales  
 635.P65 Stemonitaceae  
 635.S8  
 (638) Eccliniales  
 see QK621.E3
- Plant anatomy  
 Cf. QK665, Embryology  
 Cf. QK671, Histology  
 Cf. QK725, Cytology  
 640 Periodicals. Societies. Serials  
 640.2 Collected works (nonserial)  
 640.3 Congresses  
 640.4 Dictionaries and encyclopedias  
 641 General works, treatises, and textbooks  
 642 Pictorial works and atlases  
 642.5 Addresses, essays, lectures  
 (643) Individual plants and groups of plants  
 see QK495-QK635
- Vegetative organs  
 644 Root and modifications. Root tubercles  
 Bacteriology of root nodules, see QR113  
 644.5 Haustoria  
 Shoot  
 Including buds, growing points, etc.  
 645 General works  
 Stem  
 Including bulbs, rhizomes, types of branching  
 646 General works  
 646.7 Tree trunks  
 647 Wood  
 648 Bark  
 649 Leaf and modifications. Stipules  
 650 Appendages  
 Including trichomas, thorns, spines, tendrils,  
 scales, hairs, etc.
- 651 Thallus
- Reproductive organs of spermatophytes  
 652 General works  
 Flower and inflorescence  
 653 General works  
 654 Receptacle  
 Perianth  
 655 General works  
 656 Calyx

- Plant anatomy
  - Reproductive organs of spermatophytes
    - Flower and inflorescence
      - Perianth -- Continued
        - 657 Corolla
        - 658 Androecium. Palynology
          - Including stamens, pollen, etc.
        - 659 Gynoecium
          - Including pistils, ovary, etc.
        - Fruit and seed
          - 660 General works
          - 661 Seed
            - Cf. QK898.S43, Seed storage compounds
      - Reproductive organs of cryptogams
      - 663 Alternation of generations
      - 664 Teratology
      - 665 Embryology
        - Including embryos, embryosacs, spermatogenesis, etc.
      - (667) Phylogeny
        - see QK989
      - 669 Nomenclature of color as applied to plant description
      - 671 Histology
      - 673 Laboratory manuals, techniques, microscopy,
        - photomicrography. Methodology
      - (683-707) Individual parts
        - see QK644 +
    - Plant physiology
      - Cf. QK905, Physiological ecology
      - 710 Periodicals, societies, serial collections, yearbooks
      - 710.2 Congresses
        - General works, treatises, and textbooks
          - 711 Through 1969
          - 711.2 1970-
          - 711.5 Juvenile works
        - Study and teaching. Research
          - 714 General works
          - 714.3 Problems, exercises, examinations
          - 714.4 Experiments
          - 714.5 Laboratory manuals
        - Instruments and apparatus
          - 715 General works
          - 715.5 Phytotrons and growth chambers
        - Physical plant physiology
          - 720 Physiology of the vegetative organs (General)
            - For individual organs and groups of organs, see QK644 +
        - 725 Plant cell and tissues
        - 728 Molecular biology
          - Growth
            - 731 General works
            - 740 Germination
            - 745 Factors influencing growth

- Plant physiology
  - Physical plant physiology -- Continued
    - Chemical agents affecting plants
      - Cf. S631+, Fertilizers
      - Cf. SB742+, Deficiency diseases
      - Cf. SD408, Use of fertilizers
    - 746 General works, treatises, and textbooks
      - Including nutritive matter, etc.
    - Pollutants
      - Cf. SB744.5+, Plant pathology
    - 750 General works
    - 751 Air pollutants
      - Cf. SB745, Plant pathology
  - Special chemicals, A-Z
    - Acids
    - Alkaloids
    - Aluminum
    - Arsenic
    - Ascorbic acid, see QK753.V58
    - Atrazine
    - Auxin
    - 753.B4 Benzylaminopurine
    - 753.B6 Borax
    - 753.B7 Boron
    - 753.C16 Cadmium
    - 753.C2 Calcium
    - 753.C3 Carbon dioxide
    - 753.C58 Chelates
    - 753.C6 Chlorides
    - 753.C62 Chlorophenoxyacetic acid
    - 753.C67 Cobalt
    - 753.C7 Colchicine
    - 753.C74 Copper
    - 753.C743 Copper chlorides
    - 753.D4 Detergents
    - 753.D5 Dichlorophenoxyacetic acid
    - 753.E7 Essences and essential oils
    - 753.E8 Ethylene
    - 753.F5 Fluorescein
    - 753.F53 Fluorides
    - 753.G45 Galactose
    - 753.G5 Gibberellins. Gibberellic acid
    - 753.H4 Heavy metals
    - 753.H45 Herbicides
      - Cf. SB744.25, Herbicide injuries
    - 753.I5 Indolacetic acid
    - 753.I54 Insecticides
    - 753.I6 Iodine
    - 753.I7 Iron
    - 753.L37 Latex
    - 753.M27 Magnesium
    - 753.M3 Manganese
    - 753.M47 Metals

- Plant physiology
  - Physical plant physiology
    - Chemical agents affecting plants
      - Special chemicals, A-Z -- Continued
        - 753.M6 Molybdenum
        - 753.N5 Nitrates
        - 753.N54 Nitrogen
        - 753.P37 Pentachlorophenol
        - 753.P4 Petroleum
        - 753.P48 Phosphorus
        - 753.P65 Poisons
        - 753.P7 Potassium
        - 753.R33 Radioactive substances
          - Cf. SB746, Plant pathology
        - 753.S3 Salt
        - 753.S32 Salts
        - 753.S5 Silicon
        - 753.S57 Sodium fluoride
        - 753.S6 Sodium sulphate
        - 753.S65 Succinic acid
        - 753.S7 Sugars
        - 753.S8 Sulphates
        - 753.S84 Sulphur
        - 753.S85 Sulphur dioxide
        - 753.T5 Thallium
        - 753.T53 Thiamine
        - 753.T55 Thioureas
        - 753.T7 Trace elements
        - 753.T75 Tritium
        - 753.V58 Vitamin C
        - 753.X45 Xenobiotics
        - 753.Z5 Zinc
      - Physical agents affecting plants (General)
        - Cf. QK870+, Effect of floods, water levels, etc.
- 754 General works
  - 754.4 Atmosphere
    - Climate
      - Cf. QK913, Acclimatization
      - Cf. QK914, Phenology
      - Cf. S600+, Crops and climate
      - Cf. SD390.5+, Forests and climate
  - 754.5 General works
  - 754.7.A-Z Local, see QK108+
  - 754.7.A-Z Special topics, A-Z
    - Drought resistance, see QK754.7.D75
    - 754.7.D75 Droughts. Drought resistance
      - Cf. SB791, Plant pathology
    - Frost, see QK756
    - 754.7.S55 Snow
    - Temperature, see QK755+
    - 754.7.W55 Wind
      - Cf. SB793, Plant pathology

- Plant physiology
  - Physical plant physiology
    - Physical agents affecting plants (General) -- Continued
      - Temperature
        - 755 General works
        - 755.5 Heat
          - Including heat production in plants
      - 756 Cold. Frost
        - Cf. SB781, Plant pathology
      - 757 Radiation
        - Including light, X-rays, ultraviolet rays, etc.
      - 758 Electricity
      - 759 Mechanical forces
      - 759.5 Volcanic eruptions
      - 760 Space flight
      - 761 Periodicity. Dormancy. Photoperiodism
      - Aging. Senescence
        - 762.5 General works
        - 763 Shedding of leaves, etc. Abscission
      - 769 Miscellaneous special topics
      - Movements. Irritability in plants
        - 771 General works
        - Movements affecting growth
          - 773 Nutation. Torsion
            - Climbing plants, tendrils, etc.
          - 776 Miscellaneous induced movements
            - Including geotropism, phototropism, heliotropism, etc.
        - Movements of variation (not affecting growth)
      - 791 Mechanics
      - 793 Reproduction
        - Cf. QK982, Hybridization
      - 825 General works
      - 826 Asexual reproduction
        - Sexual reproduction
          - 827 General works
          - 828 Fecundation. Fertilization. Sterility
          - 830 Flowering
            - Cf. SB126.8, Plant culture
      - 840 Reparative processes. Regeneration
        - Cf. SD406, Tree surgery, etc.
      - 844 Luminescence. Light production
      - 845 Electrophysiology of plants
        - Cf. QK758, Effect of electricity on plants
    - Phytochemistry
      - Cf. QK981.3, Biochemical genetics
      - Cf. QR148, Microbiological chemistry
      - 861 General works, treatises, and textbooks
      - 865 Analysis and composition of plants
        - For chemistry of wood, see TS932 +
      - (866) Chemical analysis of individual plants
        - see QK495 +

- Plant physiology
- Phytochemistry -- Continued
- Nutrition. Plant food. Assimilation of nitrogen, etc.
- 867 General works
- Plant-water relationships
  - Including general works on the effects of water levels and floods on plants
  - Cf. SB785, Plant pathology
- 870 General works
- 871 Absorption of water. Osmosis, sap movements, wilting, translocation, etc.
- 873 Transpiration. Action of stomata, etc.
- 875 Gases in plants
- 876 Gases from plants
- Metabolism
- 881 General works
- 882 Photosynthesis. Assimilation and utilization of carbon dioxide
- 887 Formation of new organic matter
- 891 Respiration
- 894 Anaerobiosis
- 896 Fermentation. Enzymes, diastase, etc.
- 897 Miscellaneous products
- 898.A-Z Special plant constituents, A-Z
- 898.A15 Abscissic acid
- 898.A16 Acetylenes
- 898.A18 Adenosine triphosphatase
- 898.A2 Albumin
- 898.A3 Algin
- 898.A4 Alkaloids
  - Cf. QD421 +, Chemistry
- 898.A43 Allelopathic agents
- 898.A5 Amino acids
- 898.A52 Aminoacyl-tRNA
- 898.A53 Amyloid
- 898.A55 Anthocyanins
- 898.A57 Antioxidants
- 898.A59 Antiviral proteins
- 898.A7 Ascorbic acid
- 898.A74 Asparagine
- 898.A8 Auxin
- 898.B54 Bioactive compounds
- 898.B56 Biogenic amines
- 898.B85 Brassinosteroids
- 898.C2 Calcium
- 898.C3 Carbohydrates
- 898.C34 Carotenoids
- 898.C35 Carotin
- 898.C42 Cellulose
- 898.C44 Chlorides
- 898.C45 Chlorine
- 898.C5 Chlorophyll

## Plant physiology

## Phytochemistry

## Nutrition. Plant food.

Assimilation of nitrogen, etc.

## Special plant constituents, A-Z -- Continued

|          |                             |
|----------|-----------------------------|
| 898.C6   | Cobalt                      |
| 898.C94  | Cytokinins                  |
| 898.D44  | Deoxyribonucleic acid       |
| 898.D46  | Depsides                    |
| 898.E58  | Enzymes                     |
| 898.E75  | Essences and essential oils |
| 898.E8   | Ethylene                    |
| 898.F3   | Fatty acids                 |
| 898.F5   | Flavonoids                  |
| 898.F53  | Flavonols                   |
| 898.G45  | Gibberellins                |
| 898.G475 | Glucose                     |
| 898.G48  | Glutamate dehydrogenase     |
| 898.G49  | Gluten                      |
| 898.G497 | Glycoproteins               |
| 898.G5   | Glycosides                  |
| 898.H45  | Hemicellulose               |
| 898.H67  | Hormones                    |
| 898.I53  | Indole alkaloids            |
| 898.I55  | Inositol                    |
| 898.I7   | Iron                        |
| 898.I76  | Isopentenoids               |
| 898.I78  | Isoquinoline                |
| 898.I8   | Isozymes                    |
| 898.L23  | Laccase                     |
| 898.L3   | Latex                       |
| 898.L42  | Lectins                     |
| 898.L5   | Lignin                      |
| 898.L56  | Lipids                      |
| 898.L9   | Lycopene                    |
| 898.M28  | Malonic acid                |
| 898.M3   | Manganese                   |
| 898.M8   | Mucilage                    |
| 898.N5   | Nicotinic acid              |
| 898.N57  | Nitrates                    |
| 898.N6   | Nitrogen                    |
| 898.N8   | Nucleic acids               |
| 898.N83  | Nucleotides                 |
| 898.O4   | Olive oil                   |
| 898.O88  | Oxalates                    |
| 898.O9   | Oxidases                    |
| 898.O92  | Oxygen                      |
| 898.P2   | Patellaric acid             |
| 898.P3   | Patulin                     |
| 898.P4   | Pectin                      |
| 898.P47  | Peroxidase                  |
| 898.P57  | Phenols                     |
| 898.P59  | Phosphoproteins             |



- Plant physiology
- Phytochemistry
- Nutrition. Plant food.
  - Assimilation of nitrogen, etc.
  - Special plant constituents, A-Z -- Continued
- 898.P6 Phosphorus
- 898.P64 Phycobiliproteins
- 898.P65 Phytin
- 898.P66 Phytoalexins
- 898.P67 Phytochrome
- 898.P68 Phytomelanes
- 898.P7 Pigments
- 898.P75 Plumieride
- 898.P756 Polyamines
- 898.P76 Polymers
- 898.P764 Polyphenols
- 898.P77 Polysaccharides
- 898.P8 Proteins
- 898.P82 Proteolytic enzymes
- 898.P84 Protochlorophyllide
- 898.S43 Seed storage compounds
  - For works limited to special compounds see the compound, e.g., Proteins, see QK898.P8
- 898.S45 Selenium
- 898.S48 Sesquiterpene lactones
- 898.S49 Sesquiterpenes
- 898.S55 Shikimic acid
- 898.S64 Solanine
- 898.S67 Starch
- 898.S7 Steroids
- 898.S78 Sugar
- 898.S8 Sulphur
- 898.T2 Tannins
- 898.T4 Terpenes
- 898.U68 Uric acid
- 898.U7 Uronic acids
- 898.V5 Vitamins
- 899 Miscellaneous special topics
- Plant ecology
  - Cf. QH540+, General ecology
  - Periodicals. Societies. Serials
  - 900 Congresses
  - 900.2 Dictionaries
  - 900.4 History
    - 900.7 General works
    - 900.73.A-Z By region or country, A-Z
    - 901 General works, treatises, and textbooks
    - (903) Ecological discussion of areas
      - see QK108+
    - 905 Plant ecophysiology
      - For geographic treatment, see QK108+
      - For physiographic treatment, see QK930+
      - For systematic treatment, see QK494+

- Plant ecology -- Continued
- 909 Illustrations of floral ecology of regions
- 909.5 Vegetation productivity. Primary productivity  
 Cf. QK564+, Algae  
 Cf. QK882, Photosynthesis  
 Cf. QK933+, Phytoplankton  
 Cf. QK938.F6, Forest ecology
- 910 Vegetation dynamics
- 911 Vegetative interrelation. Plant communities.  
 Phytosociology  
 Plant adaptation
- 912 General works
- 913 Acclimatization  
 Cf. QK754.5+, Vegetation and climate
- 914 Phenology  
 Nutritive adaptation
- 915 General works
- 916 Aquatics, ice plants, dew plants
- 917 Insectivorous plants. Carnivorous plants
- 918 Parasites, saprophytes, symbionts
- Protective adaptations
- 921 General works
- 922 Epiphytes, xerophytes, salt-marsh and desert  
 plants  
 Cf. QK938.D4, Desert flora  
 Cf. QK938.S27, Salt marsh flora
- 923 Spines, secretion, raphides
- 924 Myrmecophilism, acarophilism
- 924.5 Plant canopies
- Reproductive interrelation
- 925 General works
- 926 Pollination
- 929 Dissemination
- Physiographic regions (General)  
 For geographic treatment, see QK108+
- Water
- 930 General works
- 931 Marine  
 Cf. QK938.C6, Coasts  
 Freshwater  
 General works
- 932 Streams  
 Cf. QK105, Flora
- 933 Phytoplankton  
 General works
- 934 Marine
- 935 Freshwater
- Land  
 General  
 see QK101+ and, QK901+
- 936 Tropics
- 937 Alpine flora
- 938.A-Z Other special, A-Z

- Plant ecology
  - Physiographic regions (General)
    - Land
      - Other special, A-Z -- Continued
        - Bogs, see QK938.M3
        - Burned land
        - Caves
        - Chalk, see QK938.L5
        - Coasts
        - Deserts
        - Dunes
        - Forests
          - Cf. QK938.M27, Mangrove forests and swamps
          - Cf. QK938.R34, Rain forests
          - Cf. QK938.T34, Taigas
        - Grasslands, see QK938.P7
        - Heaths
        - Islands
        - Limestone, chalk, etc.
        - Mangrove forests and swamps
        - Marshes, bogs, swamps, etc.
          - Cf. QK938.M27, Mangrove forests and swamps
          - Cf. QK938.P42, Peat bogs
        - Meadows, pastures
        - Moors
        - Paramos
        - Pastures, see QK938.M4
        - Peatlands. Peat bogs
        - Prairies. Grasslands
        - Rain forests
        - Rocks
        - Salt marshes. Tide marshes
          - Cf. QK922, Halophytes
          - Cf. QK938.M27, Margrove forests and swamps
        - Sand barrens
        - Seashore
        - Semiarid regions
        - Serpentines
        - Shrublands
        - Swamps, see QK938.M3
        - Taigas
        - Tide marshes, see QK938.S27
        - Tundras
        - Vineyards
  - Topographical divisions
    - see QK108-QK474.5
  - Evolution of plants (General)
    - For works limited to special crops, see SB177.A +
    - For works limited to specific divisions, classes, etc., see QK494 +

938.B8  
938.C3

938.C6  
938.D4  
938.D9  
938.F6

938.H4  
938.I84  
938.L5  
938.M27  
938.M3

938.M4  
938.M6  
938.P3

938.P42  
938.P7  
938.R34  
938.R6  
938.S27

938.S3  
938.S36  
938.S4  
938.S45  
938.S57

938.T34

938.T8  
938.V5  
(940-977.5)

- Plant ecology
- Evolution of plants (General) -- Continued
- 980 General works
- Genetics
- 981 General works
- 981.3 Biochemical genetics
- 981.35 Cytogenetics
- 981.4 Molecular genetics
- 981.45 Genome mapping
- 981.5 Genetic engineering
- 981.7 Germplasm resources
  - Cf. SB123.3, Crop germplasm resources
- 982 Hybridization
- 983 Variation
- 985 Selection, natural and artificial
  - For works limited to plant-breeding, see SB123 +
- 987 Degeneration
- 989 Phylogeny

## Zoology

- For animal culture, see SF1 +
- For animal ecology, see QH540 +
- 1 Periodicals, societies, congresses, serial collections, yearbooks
- 3 Collected works (nonserial)
- 5 Voyages and expeditions
- 7 Encyclopedias
- 9 Dictionaries
- 10 Classification. Nomenclature, see QL351 +  
Terminology, notation, abbreviations  
Cf. QL353+, Nomenclature
- History
- 15 General works
- 21.A-Z By region or country, A-Z
- Biography
- 26 Collective
- 31.A-Z Individual, A-Z
  - e.g.
  - 31.A9 Audubon
  - 31.C9 Cuvier
- 35 Directories
- General works and treatises
- 41 Early through 1759
- 45 1760-1969
- 45.2 1970-
- 46 Pictorial works and atlases
- 46.5 Zoological illustrating
- Textbooks
- Advanced
- 47 Through 1969
- 47.2 1970-
- Elementary
- 48 Through 1969
- 48.2 1970-
- 49 Juvenile works  
Cf. SF75.5, Domestic animals
- 50 Popular works  
For stories and anecdotes, see QL791 +
- 50.5 Zoology as a profession. Vocational guidance
- Study and teaching. Research
- 51 General works
- 51.2.A-Z By region or country, A-Z  
Each region or country subarranged by author
- 51.5 Problems, exercises, examinations
- 52 Outlines, syllabi
- 52.55 Activity programs
- 52.6 Experiments
- 53 Laboratory manuals  
Cf. QL812+, Anatomy  
Cf. QP44, Physiology

- Study and teaching. Research -- Continued
- 55 Laboratory animals  
Class here general works only. Prefer systematic divisions for particular groups of animals  
Cf. SF405.5+, Breeding and care  
Cf. SF996.5, Diseases
- 57 Audiovisual aids
- 58 Other special
- 59 Wildlife attracting  
Including gardening to attract wildlife
- 60 Wildlife watching  
Including wildlife viewing sites
- 60.4 Radio tracking
- 60.5 Wildlife marking
- 60.7 Age determination
- Collection and preservation  
Class here general works only. For works on collecting particular animals or the fauna of particular places, see systematic or geographical subdivisions in QL  
Cf. QL465, Insects  
Cf. QL677.7, Birds
- 61 General works, treatises, and textbooks
- Collecting techniques
- 62 General works
- 62.5 Immobilization  
Cf. SF760.A55, Veterinary medicine
- 63 Taxidermy  
Cf. QL618.6, Fish mounting
- 64 Models and modelmaking
- 67 Preservation techniques
- Laboratories, institutes, university departments, etc.  
Class here descriptions, catalogs, annual reports, etc.  
For serial research publications, see QL1
- 69.A1 General works
- 69.A3-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Individual laboratories. By name, A-Z*
- Museums. Exhibitions  
Class here descriptions, catalogs, annual reports, etc.  
For serial research publications, see QL1
- 71.A1 General works
- 71.A2-Z By region or country, A-Z  
*Under each country:*  
.x *General works*  
.x2A-.x2Z *Special. By city, A-Z*
- 72 Commercial lists
- Menageries
- 73.A1 General works

- Menageries -- Continued
  - 73.A2-Z By region or country, A-Z  
Apply table at QL71.A2-Z
- Zoos. Zoological gardens
  - 76 General works
  - 76.5.A-Z By region or country, A-Z  
Apply table at QL71.A2-Z
  - 77.5 Zoo animals
    - Cf. SF408+, Culture and care
    - Cf. SF995.84+, Veterinary medicine
  - Public aquariums
    - Cf. SF456+, Home aquariums
  - 78 General and freshwater aquariums
  - 78.5 Marine aquariums. Saltwater aquariums
  - 79.A-Z By region or country, A-Z  
Apply table at QL71.A2-Z
  - 81 Addresses, essays, lectures  
Wildlife conservation. Rare animals. Endangered species
    - Including rare and endangered vertebrates
    - For conservation of particular animals and groups of animals, see QL366+
    - Cf. HE5620.W54, Wildlife and traffic safety
    - Cf. SK351+, Wildlife management. Game protection
    - Cf. SK590+, Wild animal trade
  - 81.5 Periodicals, societies, congresses
  - 81.7 History (General)
    - For history of a particular place, see QL84+
  - 82 General works
  - 83 Juvenile works
  - 83.15 Study and teaching. Research
  - 83.2 Wildlife rescue
    - Including wildlife relocation and replacement
    - Cf. SF996.45, Wildlife rehabilitation
  - 83.4 Wildlife reintroduction
  - By region or country
    - North America
      - 84 General works
      - United States
        - 84.2 General works
        - 84.22.A-Z By region or state, A-Z
        - Canada
          - 84.24 General works
          - 84.26.A-Z By region or province, A-Z
          - 84.28 Mexico
            - Central America
              - 84.285.A1 General works
              - 84.285.A3-Z By region, country, or island, A-Z
            - West Indies
              - 84.29.A1 General works
              - 84.29.A3-Z By region, country, or island, A-Z
            - South America
              - 84.3.A1 General works

- Wildlife conservation.  
 Rare animals. Endangered species  
 By region or country  
 South America -- Continued  
 84.3.A3-Z By region, country, or island, A-Z  
 Europe  
 84.4.A1 General works  
 84.4.A3-Z By region, country, or island, A-Z  
 Asia  
 84.5.A1 General works  
 84.5.A3-Z By region, country, or island, A-Z  
 Africa  
 84.6.A1 General works  
 84.6.A3-Z By region, country, or island, A-Z  
 Australia and Indo-Pacific islands  
 84.7.A1 Australia  
 84.7.A3-Z Other. By region, country, or island, A-Z  
 85 Animals and civilization. Human-animal relationships  
 86 Animal introduction  
 Cf. SF87, Acclimatization of livestock  
 87 Animals in the ancient world  
 Bible zoology, see BS663  
 88 Extinct animals  
 Cf. QL676.8, Extinct birds  
 Cf. QL707, Extinct mammals  
 Cryptozoology  
 88.3 General works  
 88.5 Living fossils  
 Alleged animals  
 Cf. BF1484, Animal ghosts  
 Cf. GR705+, Animal folklore  
 Cf. GR825+, Mythical animals  
 89 General works  
 89.2.A-Z By animal, A-Z  
 Abominable snowman, see QL89.2.Y4  
 89.2.C53 Champ (Monster)  
 89.2.L6 Loch Ness monsters  
 89.2.M58 Mokele-mbembe  
 89.2.M6 Morag  
 89.2.O34 Ogopogo  
 89.2.S2 Sasquatch  
 89.2.S4 Sea serpents  
 89.2.S44 Serpents  
 89.2.Y4 Yeti  
 (95) Noxious animals  
 see SF84+  
 99 Medical zoology  
 Cf. RA639+, Transmission of disease  
 100 Poisonous animals. Dangerous animals  
 Cf. QL468.8, Insects  
 Cf. QL618.7, Fishes  
 Cf. QP631+, Toxins, venom, poisons  
 Geographical distribution



- 101 . Geographical distribution -- Continued
  - General works, treatises, and textbooks
  - Polar regions
    - 104 General works
    - 105 Arctic regions
      - Including Greenland
      - Cf. QL126, Arctic Ocean
    - 106 Antarctica
      - Cf. QL126.5, Antarctic Ocean
  - 107 Temperate regions
  - 109 Tropics
  - Physiographic divisions
    - Soil
      - Cf. QR111+, Soil microorganisms
    - 110 General works
    - 110.5 Compost
    - Land
      - 111 Islands
        - Cf. QL125, Coral reefs
      - 112 Forests
      - 113 Mountains
        - Cf. QL254, Alps
      - Wetlands
        - 113.8 General works
        - 114 Marshes. Tidemarshes
        - 114.5 Swamps
        - 115 Plains
          - Grasslands. Prairies
            - 115.3 General works
            - 115.5 Meadows. Fields
          - 116 Deserts
          - 117 Caves
          - 118 Subterranean waters
      - Water
        - 120 General works, treatises, and textbooks
        - Ocean
          - 121 General works
          - 122 Popular works
          - 122.2 Juvenile works
          - 123 Zooplankton
          - (124) Animal ecology of the ocean
            - see QH541.5.S3
          - 125 Coral reefs
          - 125.5 Deep-sea
          - 126 Arctic Ocean
          - 126.5 Antarctic Ocean
          - Atlantic Ocean
            - 127 General works
            - 128 North Atlantic Ocean. North Sea, etc.
            - 131 Baltic Sea
            - 132 Black Sea. Sea of Azov
            - 133 Mediterranean Sea
            - 134 Gulf of Mexico

- Geographical distribution
  - Physiographic divisions
    - Water
      - Ocean
        - Atlantic Ocean -- Continued
          - 134.5 Caribbean Sea
          - 135 South Atlantic Ocean
          - 137 Indian Ocean. Red Sea
          - 137.5 Indo-Pacific Region
          - 138 Pacific Ocean
        - 139 Brackish water. Estuaries
      - Fresh water
        - 141 General works
        - 143 Zooplankton
        - 145 Streams
        - 146 Lakes
        - 146.3 Ponds
        - 147 Springs
          - Including hot springs
        - 148 Wells
        - 149 Stagnant water
  - Topographical divisions (Faunas)
    - America
      - 150 General works
      - North America
        - 151 General works
        - United States
          - 155 General works
          - 159 Alabama
          - 161 Alaska
          - 162 Arizona
          - 163 Arkansas
          - 164 California
          - 165 Colorado
          - 166 Connecticut
          - 167 Delaware
          - 168 District of Columbia
          - 169 Florida
          - 171 Georgia
          - Hawaii, see QL345.H3
          - 172 Idaho
          - 173 Illinois
          - 175 Indiana
          - 176 Iowa
          - 177 Kansas
          - 178 Kentucky
          - 179 Louisiana
          - 181 Maine
          - 182 Maryland
          - 183 Massachusetts
          - 184 Michigan
          - 185 Minnesota
          - 186 Mississippi

- Geographical distribution
  - Topographical divisions (Faunas)
    - America
      - North America
        - United States -- Continued
          - 187 Missouri
          - 188 Montana
          - 189 Nebraska
          - 191 Nevada
          - 192 New Hampshire
          - 193 New Jersey
          - 194 New Mexico
          - 195 New York
          - 196 North Carolina
          - 197 North Dakota
          - 198 Ohio
          - 199 Oklahoma
          - 201 Oregon
          - 202 Pennsylvania
          - 203 Rhode Island
          - 204 South Carolina
          - 205 South Dakota
          - 206 Tennessee
          - 207 Texas
          - 208 Utah
          - 209 Vermont
          - 211 Virginia
          - 212 Washington
          - 213 West Virginia
          - 214 Wisconsin
          - 215 Wyoming
          - Including Yellowstone National Park
        - Canada
          - 219 General works
          - 221.A-Z By region or province, A-Z
        - Latin America
          - 223 General works
          - 225 Mexico
        - Central America
          - 227 General works
          - 228.A-Z By region or country, A-Z
        - West Indies
          - 229.A2 General works
          - 229.A4-Z By individual island or group of islands, A-Z
          - 229.A58 Antilles, Lesser
          - 229.B3 Bahamas
          - 229.C39 Cayman Islands
          - 229.C9 Cuba
          - 229.D65 Dominica
          - 229.H35 Haiti
          - 229.H57 Hispaniola
          - 229.I5 Inagua
          - 229.L4 Leeward Islands

- Geographical distribution  
 Topographical divisions (Faunas)  
 America  
 Latin America  
 West Indies  
 By individual island  
 or group of islands, A-Z -- Continued  
 229.P6 Puerto Rico  
 229.T7 Trinidad  
 229.V57 Virgin Islands  
 234 Bermuda  
 South America  
 235 General works  
 239 Argentina  
 241 Bolivia  
 242 Brazil  
 243 Chile  
 244 Colombia  
 245 Ecuador  
 For Galapagos Islands, see QL345.G2  
 246 Guyana (British Guiana)  
 246.2 Surinam (Dutch Guiana)  
 246.4 French Guiana  
 247 Paraguay  
 248 Peru  
 249 Uruguay  
 251 Venezuela  
 Atlantic Ocean islands  
 252.A1 General works  
 252.A3-Z By individual island or group of islands, A-Z  
 Bermuda, see QL234  
 Europe  
 253 General works  
 254 Regions not limited to a single country (not A-Z)  
 Including Alps, Balkan Peninsula, Baltic States,  
 etc.  
 British Isles. Great Britain  
 255 General works  
 256 England  
 257 Ireland  
 257.5 Northern Ireland  
 258 Wales  
 259 Scotland  
 261 Austria  
 262 Hungary  
 France  
 263 General works  
 264 Colonies and mandated territories  
 265 Germany  
 271 Greece  
 273 Italy  
 273.5 Malta  
 275 Netherlands

- Geographical distribution
  - Topographical divisions (Faunas)
    - Europe -- Continued
      - 277 Belgium
      - 278 Luxembourg
      - 281 Russia. Soviet Union. Russia (Federation)
      - 282 Belarus
      - 282.5 Moldova
      - 283 Ukraine
      - 284 Poland
      - 285 Finland
      - 286 Scandinavia (General)
      - 287 Denmark
      - 288 Iceland
      - 289 Norway
      - 291 Sweden
      - 293 Spain
      - 294 Portugal
        - Including the Azores, Madeira, etc.
      - 296 Switzerland
      - 297 Turkey in Europe
        - For Balkan Peninsula (General), see QL254
        - For individual Balkan countries, see QL298.A +
        - For Turkey in Asia, see QL333.5
    - 298.A-Z Other European countries, A-Z
      - 298.B8 Bulgaria
      - 298.C8 Czechoslovakia. Czech Republic
      - 298.L3 Latvia
      - 298.R8 Romania
      - 298.S65 Slovakia
      - 298.Y8 Yugoslavia
    - Asia
      - 300 General works
      - 304 Afghanistan
      - 305 Arabian Peninsula (General)
        - For individual countries, see QL334.A +
      - (306) Baluchistan
      - 307 China
      - 307.2 Taiwan
      - 309 India
      - Indochina. Malay Peninsula
        - 312 General works
        - 313 Vietnam
        - 314 Cambodia
        - 315 Laos
        - 317 Thailand
        - 318 Straits Settlements
      - Malay Archipelago
        - 319 General works
        - 321 Indonesia
          - For Irian Jaya, see QL322.5
        - 322 Malaysia

## Geographical distribution

## Topographical divisions (Faunas)

## Asia

Malay Archipelago -- Continued

322.5

New Guinea

Including Irian Jaya and Papua New Guinea

323

Philippines

Japan

325

General works

325.3

Ryukyu Islands

Including Okinawa

327

Korea

329

Iran

331

Soviet Union in Asia. Siberia

333

Israel. Palestine

Armenia, see QL331

333.3

Syria

333.5

Turkey. Asia Minor

Other regions or countries, A-Z

(334.A75)

Asia, Western

see QL334.M53

334.B34

Bangladesh

334.B87

Burma

334.C4

Ceylon. Sri Lanka

334.M53

Middle East

334.M65

Mongolia

334.N44

Nepal

334.O53

Oman

334.P4

Pakistan

334.S28

Saudi Arabia

Sri Lanka, see QL334.C4

334.T87

Turkmenistan

## Africa

336

General works

337.A-Z

By region or country, A-Z

337.A5

Angola

337.B68

Botswana. Bechuanaland

337.B8

British East Africa

337.B9

Burkina Faso. Upper Volta

337.C25

Cameroon

337.C58

Congo (Democratic Republic). Zaire

Côte d'Ivoire, see QL337.I8

337.E25

East Africa

337.E3

Egypt

337.E8

Ethiopia

337.F7

French-speaking Equatorial Africa

337.F75

French-speaking West Africa

337.G34

Gambia

337.G56

Ghana

337.G8

Guinea, Portuguese

337.I8

Ivory Coast. Côte d'Ivoire

337.K3

Kalahari Desert

337.K4

Kenya

- Geographical distribution
  - Topographical divisions (Faunas)
    - Africa
      - By region or country, A-Z -- Continued
        - 337.L7 Liberia
        - 337.L72 Libya
        - 337.L83 Luangwa Valley
        - 337.M2 Malagasy Republic. Madagascar
        - 337.M28 Malawi
        - 337.M7 Mauritius, see QL337.6.M36
        - 337.N27 Mozambique
        - 337.N5 Namibia
        - 337.R4 Nigeria
        - 337.S3 Rhodesia, Northern, see QL337.Z3
        - 337.S6 Rhodesia, Southern. Zimbabwe
        - 337.S65 Sahara
        - 337.S66 Somalia
        - 337.S78 South Africa
        - 337.S8 Southern Africa
        - 337.T27 Southwest Africa, see QL337.N27
        - 337.T3 Sub-Saharan Africa
        - 337.T7 Sudan
        - 337.U35 Tanganyika, Lake
        - 337.W4 Tanzania
        - 337.Z3 Togo
        - 337.Z3 Uganda
        - 337.Z3 West Africa
        - 337.Z3 Zambia
        - 337.Z3 Zimbabwe, see QL337.R4
      - Indian Ocean islands
        - 337.5 General works
        - 337.6.A-Z By island or groups of islands, A-Z
        - 337.6.M34 Maldives
        - 337.6.M36 Mauritius
      - Australia
        - 338 General works
        - 339.A-Z By state or territory, A-Z
      - New Zealand
        - 340 Including adjacent islands
      - Pacific islands
        - 345.A1 General works
        - 345.A3-Z By individual island or group of islands, A-Z
        - 345.C65 Cook Islands
        - 345.F53 Fiji
        - 345.G2 Galapagos Islands
        - 345.H3 Hawaii
        - 345.M3 Marquesas Islands
        - 345.M34 Marshall Islands
        - 345.N3 New Caledonia
        - 345.N3 New Guinea, see QL322.5
        - 345.N3 Ryukyu Islands, see QL325.3
        - 345.T3 Tahiti
        - 345.T65 Tonga

- Geographical distribution  
 Topographical divisions (Faunas) -- Continued  
   Arctic regions, Antarctica, see QL104 +  
   Tropics, see QL109
- Classification. Systematics and taxonomy
- 351 Principles  
 352 Systems
- Nomenclature
- 353 General works. Principles  
 354 Nomenclators and checklists  
 355 Popular names
- Invertebrates
- 360 Dictionaries and encyclopedias  
 362 General works, treatises, and textbooks  
 362.4 Juvenile works  
   Rare and endangered species  
 362.45 General works  
 362.46.A-Z By region or country, A-Z  
 362.5 Classification  
 362.7 Catalogs and collections  
 362.75 Evolution  
 362.8 Methods, culture, etc.  
 362.85 Immunology  
 362.9 Genetics  
 363 Anatomy and morphology  
 363.5 Metamorphosis  
 363.8 Cytology  
 364 Physiology  
 364.15 Reproduction  
 364.18 Development  
   Including larvae
- 364.2 Behavior  
 364.3 Feeding and feeds  
 364.5 Coloniality. Animal colonies  
   Class here works on groupings of physically  
   interconnected animals having a common ancestry  
   through asexual reproduction
- 365 Animalcules. Early works on infusoria  
 Geographical distribution, see QL101 +  
 Protozoa  
   Cf. QR251 +, Pathogenic protozoa
- 366 General works, treatises, and textbooks  
 366.5 Classification  
   Geographical distribution  
     For geographical distribution of systematic  
     divisions, see QL368.A115 +
- 367 General works  
 367.1 North America (United States and Canada)  
   (Table Q3)  
 367.2 Mexico, Central America, and West Indies  
   (Table Q3)  
 367.3 South America (Table Q3)  
 367.4 Europe (Table Q3)



## . Invertebrates

## Protozoa

## Geographical distribution -- Continued

- 367.5 Asia (Table Q3)  
 367.6 Africa (Table Q3)  
 367.7 Australia  
 367.75 New Zealand  
 367.8 Pacific islands (Table Q3)  
 367.9 Arctic regions  
 367.95 Antarctica  
 367.96 Tropics
- Systematic divisions
- 368.A115 Plasmodroma  
 368.A12 Mastigophora (Phytomastigia; Zoomastigia).  
 Flagellata  
 368.A14 Sarcodina (Rhizopoda; Actinopoda)  
 368.A16 Sporozoa  
 368.A18 Cnidosporidia  
 368.A2 Ciliophora  
 368.A22 Ciliata (Holotricha; Spirotricha; Peritricha)  
 Suctoria, see QL368.S9  
 368.A3-Z By order or higher taxa, A-Z  
 Class works on species, genera, and families by  
 order
- 368.A32 Acantharia  
 368.A33 Acanthometrida  
 368.A335 Acanthophractida  
 368.A36 Aconchulinida  
 368.A38 Acrasida  
 368.A4 Actinomyxida  
 368.A44 Actinophryida  
 368.A5 Amoebida  
 368.A57 Apostomatida  
 368.A63 Arcellinida  
 368.A66 Archigregarinida  
 368.A8 Astomatida  
 368.A85 Athalamida  
 368.B5 Bicosoecida  
 368.B55 Blastocystida  
 368.C4 Centrohelida  
 368.C48 Chloromonadida  
 368.C5 Choanoflagellida  
 368.C54 Chonotrichida  
 368.C57 Chrysomonadida  
 368.C59 Coccida  
 368.C6 Coccolithophorida  
 368.C8 Cryptomonadida  
 Ctenostomatida, see QL368.O4  
 368.D4 Desmothoracida  
 (368.D6) Dinoflagellida  
 see QK569.D56  
 368.D65 Diplomonadida  
 368.E2 Ebriida

## Invertebrates

## Protozoa

## Systematic divisions

By order or higher taxa, A-Z -- Continued

- |          |                                 |
|----------|---------------------------------|
| 368.E5   | Entodiniomorphida               |
| (368.E9) | Euglenida                       |
|          | see QK569.E93                   |
| 368.E92  | Eugregarinida                   |
| 368.E95  | Eumycetosoida                   |
| 368.F6   | Foraminiferida                  |
| 368.G8   | Gregarinida                     |
| 368.G85  | Gromiida                        |
| 368.G9   | Gymnostomatida                  |
| 368.H33  | Haemosporida                    |
| 368.H34  | Haplosporida                    |
| 368.H4   | Helicosporida                   |
| 368.H5   | Heliozoida                      |
| 368.H53  | Heterochlorida. Xanthomonadida  |
| 368.H55  | Heterotrichida                  |
| 368.H87  | Hymenostomatida                 |
| 368.H9   | Hypermastigida                  |
| 368.H95  | Hypotrichida                    |
|          | Infusoria, see QL366            |
| 368.K5   | Kinetoplastida                  |
| 368.L3   | Labyrinthulida                  |
| 368.M5   | Microsporida                    |
| 368.M78  | Mycetozoida                     |
| 368.M8   | Myxosporida                     |
| 368.N4   | Neogregarinida                  |
| 368.O3   | Oculosida                       |
| 368.O4   | Odontostomatida. Ctenostomatida |
| 368.O5   | Oligotrichida                   |
| 368.O7   | Opalinida                       |
| 368.O9   | Oxynomadida                     |
| 368.P4   | Peritrichida                    |
|          | Phytomonadida, see QL368.V6     |
| 368.P52  | Piroplasmida                    |
| 368.P55  | Plasmodiophorida                |
| 368.P62  | Polymastigida                   |
| 368.P65  | Porulosida                      |
| 368.P7   | Proteomyxida                    |
| 368.P74  | Protococcida                    |
|          | Protomastigida, see QL368.P76   |
| 368.P76  | Protomonadida. Protomastigida   |
| 368.R2   | Radiolarida                     |
| 368.R43  | Retortamonadida                 |
| 368.R5   | Rhizomastigida                  |
|          | Sacrosporida, see QL368.T6      |
| (368.S5) | Silicoflagellida                |
|          | see QK569.S53                   |
| 368.S9   | Suctorida                       |
| 368.T4   | Testacida                       |
| 368.T5   | Thigmotrichida                  |

- Invertebrates
  - Protozoa
    - Systematic divisions
      - By order or higher taxa, A-Z -- Continued
        - 368.T55 Tintinnida
        - 368.T6 Toxoplasmodia. Sarcosporida
        - 368.T7 Trichomonadida
        - 368.T76 Trichostomatida
        - 368.V6 Volvocida. Phytomonadida
        - Xanthomonadida, see QL368.H53
        - 368.X4 Xenophyophorida
      - 369 Anatomy and morphology
      - 369.2 Physiology
    - Porifera (Sponges)
      - 370.7 Periodicals, societies, congresses, serial collections
      - 371 General works, treatises, and textbooks
      - 371.2 Pictorial works and atlases
      - 371.4 Popular works
      - 371.6 Juvenile works
      - Geographical distribution
        - For geographical distribution of systematic divisions, see QL373.A +
        - 372 General works
        - 372.1 North America (United States and Canada) (Table Q3)
        - 372.2 Mexico, Central America, and West Indies (Table Q3)
        - 372.3 South America (Table Q3)
        - 372.4 Europe (Table Q3)
        - 372.5 Asia (Table Q3)
        - 372.6 Africa (Table Q3)
        - 372.7 Australia
        - 372.75 New Zealand
        - 372.8 Pacific islands (Table Q3)
        - 372.9 Arctic regions
        - 372.95 Antarctica
        - 372.96 Tropics
      - 373.A-Z Systematic divisions. By class, A-Z
        - Class here works on species, genera, families and orders
        - 373.C2 Calcispongiae (Calcarea)
        - 373.D4 Demospongiae
        - 373.H6 Hyalospongiae (Hexactinellida)
        - 374 Anatomy and morphology
        - 374.2 Physiology
    - Coelenterata (Cnidaria)
      - 375 General works, treatises, and textbooks
      - 375.2 Pictorial works and atlases
      - 375.4 Popular works
      - 375.6 Juvenile works

## Invertebrates

## Coelenterata (Cnidaria) -- Continued

## Geographical distribution

For geographical distribution of systematic divisions, see QL377.A +

- 376 General works  
 376.1 North America (United States and Canada) (Table Q3)  
 376.2 Mexico, Central America, and West Indies (Table Q3)  
 376.3 South America (Table Q3)  
 376.4 Europe (Table Q3)  
 376.5 Asia (Table Q3)  
 376.6 Africa (Table Q3)  
 376.7 Australia  
 376.75 New Zealand  
 376.8 Pacific islands (Table Q3)  
 376.9 Arctic regions  
 376.95 Antarctica  
 376.96 Tropics  
 377.A-Z Systematic divisions. By class, A-Z  
     Anthozoa (Corals)  
         General works  
         Alcyonaria  
         Zoantharia  
         Ctenophora, see QL380 +  
         Hydrozoa (Hydromedusae; hydroids)  
         Scyphozoa (Scyphomedusae; jellyfish)  
 377.H9  
 377.S4  
 378 Anatomy and morphology  
 378.2 Physiology  
 379 Zoophyta (old sense)  
 Ctenophora  
 380 General works, treatises, and textbooks  
 Geographical distribution  
     For geographical distribution of systematic divisions, see QL380.5.A +  
 380.3 General works  
 380.32 North America (United States and Canada) (Table Q3)  
 380.35 Mexico, Central America, and West Indies (Table Q3)  
 380.37 South America (Table Q3)  
 380.4 Europe (Table Q3)  
 380.42 Asia (Table Q3)  
 380.44 Africa (Table Q3)  
 380.46 Australasia and Indo-Pacific islands (Table Q3)  
 380.48 Polar regions  
 380.49 Tropics  
 380.5.A-Z Systematic divisions. By classes and orders  
     Class works on species, genera, and families by order  
 380.5.N8-N83 Nuda  
 380.5.N8 General works

- Invertebrates
  - Ctenophora
    - Systematic divisions. By classes and orders
      - Nuda -- Continued
        - Beroidea
        - Tentaculata
        - General works
        - Cestida
        - Cydippida
        - Lobata
        - Platyctenea
    - 380.5.N83
    - 380.5.T4-T47
    - 380.5.T4
    - 380.5.T42
    - 380.5.T429
    - 380.5.T45
    - 380.5.T47
    - 380.7
    - 380.8
  - Echinodermata
    - General works, treatises, and textbooks
    - Classification
    - Catalogs and collections
    - Geographical distribution
      - For geographical distribution of systematic divisions, see QL384.A +
    - 381
    - 382
    - 382.2
    - 383
    - 383.1
    - 383.2
    - 383.3
    - 383.35
    - 383.4
    - 383.5
    - 383.6
    - 383.7
    - 383.75
    - 383.8
    - 383.9
    - 383.95
    - 383.96
    - 384.A-Z
    - Systematic divisions. By class, A-Z
      - Class works on species, genera, families, and orders by class
        - Asteroidea (Starfish)
        - Crinoidea
        - Echinoidea (Sea urchins)
        - Holothurioidea (Sea cucumbers)
        - Ophiuroidea (Brittle stars)
      - Anatomy and morphology
      - Physiology
    - Worms and other vermiform invertebrates
      - Periodicals, societies, congresses, serial collections, yearbooks
      - General works, treatises, and textbooks
        - Cf. QL392.A1 +, Helminthology
      - Juvenile works
      - Classification

## Invertebrates

- Worms and other vermiform  
invertebrates -- Continued
- 387.2 Catalogs and collections  
Geographical distribution  
    For geographical distribution of systematic  
        divisions, see QL391.A +
- 388 General works, treatises, and textbooks
- 388.1 North America (United States and Canada)  
    (Table Q3)
- 388.2 Mexico, Central America, and West Indies  
    (Table Q3)
- 388.3 South America (Table Q3)
- 388.4 Europe (Table Q3)
- 388.5 Asia (Table Q3)
- 388.6 Africa (Table Q3)
- 388.7 Australia
- 388.75 New Zealand
- 388.8 Pacific islands (Table Q3)
- 388.9 Arctic regions
- 388.95 Antarctica
- 388.96 Tropics
- 391.A-Z Systematic divisions. By phylum, A-Z
- 391.A2 Acanthocephala (Spiny-headed worms)
- 391.A6 Annelida (Segmented worms)
- Cestoda, see QL391.P7
- 391.C6 Chaetognatha (Arrowworms)
- 391.E2 Echiura
- 391.G2 Gastrotricha
- Gephyrea (Gastrotricha), see QL391.E2
- Gephyrea (Sipuncula), see QL391.S5
- 391.G63 Gnathostomulida
- Hirudinea, see QL391.A6
- 391.K5 Kinorhyncha (Echinodera)
- 391.L67 Loricifera
- 391.M4 Mesozoa
- 391.N4 Nematoda (Roundworms)
- 391.N5 Nematomorpha (Gordiaceae; horsehair worms)
- 391.N6 Nemertina (Rhynchozoa; ribbonworms)
- Oligochaeta, see QL391.A6
- Onychophora, see QL448
- Pentastomida, see QL447.3
- 391.P5 Phoronida
- 391.P7 Platyhelminthes (Flatworms)
- 391.P85 Pogonophora (Beardworms)
- Polychaeta, see QL391.A6
- 391.P93 Priapulida
- 391.R8 Rotifera
- 391.S5 Sipuncula
- Trematoda, see QL391.P7
- Turbellaria, see QL391.P7
- Helminthology  
    For geographic treatment, see QL388 +

- Invertebrates
- Worms and other vermiform invertebrates
    - Helminthology -- Continued
      - 392.A1 Periodicals, societies, congresses, serial collections, yearbooks
      - 392.A3-Z General works, treatises, and textbooks
      - 393 Anatomy and morphology
      - 394 Physiology
    - Brachiopoda (Lamp shells)
      - 395 General works, treatises, and textbooks
      - 395.1 Classification
      - 395.15 Catalogs and collectors
      - Geographical distribution
        - For geographical distribution of systematic divisions, see QL395.8.A +
        - 395.2 North America (United States and Canada) (Table Q3)
        - 395.23 Mexico, Central America, and West Indies (Table Q3)
        - 395.25 South America (Table Q3)
        - 395.3 Europe (Table Q3)
        - 395.4 Asia (Table Q3)
        - 395.5 Africa (Table Q3)
        - 395.6 Australia
        - 395.63 New Zealand
        - 395.67 Pacific islands (Table Q3)
        - 395.7 Arctic regions
        - 395.75 Antarctica
        - 395.76 Tropics
      - 395.8.A-Z Systematic divisions. By family, A-Z
        - Class here works on species, genera, and families
        - For works on higher taxa, see QL395-QL395.76
        - 395.8.C7 Craniidae
        - 395.8.L7 Lingulidae
        - 395.8.R5 Rhynchonellidae
        - 395.8.T4 Terebratulidae
      - 395.9 Anatomy and morphology
      - 395.95 Physiology
    - Bryozoa (Ectoprocta; Polyzoa)
      - 396 General works, treatises, and textbooks
      - 396.5 Classification
      - 396.7 Catalogs and collections
      - Geographical distribution
        - For geographical distribution of systematic divisions, see QL398.A +
        - 397 General works
        - 397.1 North America (United States and Canada) (Table Q3)
        - 397.2 Mexico, Central America, and West Indies (Table Q3)
        - 397.3 South America (Table Q3)
        - 397.4 Europe (Table Q3)
        - 397.5 Asia (Table Q3)

## Invertebrates

## Bryozoa (Ectoprocta; Polyzoa)

## Geographical distribution -- Continued

- 397.6 Africa (Table Q3)  
 397.7 Australia  
 397.75 New Zealand  
 397.8 Pacific islands (Table Q3)  
 397.9 Arctic regions  
 397.95 Antarctica  
 397.96 Tropics  
 398.A-Z Systematic divisions. By order, A-Z  
     Class here works on species, genera, families, and orders  
     Class higher taxa in QL396 +
- 398.C5 Cheilostomata  
 398.C8 Ctenostomata  
 398.C9 Cyclostomata  
     Ectoprocta, see QL396 +  
     Entoprocta, see QL400 +
- 398.L6 Lophopoda  
 399 Anatomy and morphology  
 399.2 Physiology
- 400 Entoprocta (Callyssozoa; Endoprocta)  
 General works, treatises, and textbooks  
 Geographical distribution  
     For geographical distribution of systematic divisions, see QL400.5.A +
- 400.3 General works  
 400.32 North America (United States and Canada)  
     (Table Q3)  
 400.35 Mexico, Central America, and West Indies  
     (Table Q3)  
 400.37 South America (Table Q3)  
 400.4 Europe (Table Q3)  
 400.42 Asia (Table Q3)  
 400.44 Africa (Table Q3)  
 400.46 Australasia and the Indo-Pacific islands  
     (Table Q3)  
 400.48 Polar regions  
 400.49 Tropics
- 400.5.A-Z Systematic divisions. By family, A-Z  
     Class here works on species, genera, and families  
     Class higher taxa in QL400 QL400.49
- 400.5.L6 Loxosomatidae  
 400.5.P4 Pedicellinidae  
 400.5.U7 Urnatellidae

## Mollusca

- Cf. SH365 +, Oyster culture and fisheries
- 401 Periodicals, societies, congresses, serial collections, yearbooks  
 402 Collected works (nonserial)  
 402.3 Dictionaries and encyclopedias  
 403 General works, treatises, and textbooks



## Invertebrates

## Mollusca -- Continued

- 404 Pictorial works and atlases
- 405 Popular works
- 405.2 Juvenile works
- 406 Classification
- 406.2 Catalogs and collections
- 406.5 Collection and preservation
- 406.7 Evolution. Phylogeny. Speciation
- Geographical distribution
  - For geographic distribution of systematic divisions, see QL430.1+
- Physiographic divisions
  - Land
    - 407 General works
    - 407.5 Fresh water
  - Marine
    - For mollusks of particular coasts and islands, see QL411+
    - 408 General works
    - 408.2 Atlantic Ocean
      - Cf. QL424.5, Atlantic islands
    - 408.5 Pacific Ocean
      - Cf. QL428.5, Pacific islands
    - 408.7 Indian Ocean
- Topographical divisions
  - North America
    - 411 General works
    - 413 Canada
    - United States
      - 414 General works
      - 415.A-Z By region or state, A-Z
    - 416 Atlantic Coast
    - 417 Pacific Coast
    - (418) Pacific islands
      - see QL428.5
    - 419 Gulf Coast
  - Latin America
    - 420 General works
    - 421 Mexico
    - 422 Central America (Table Q3)
    - 423 West Indies (Table Q3)
    - 424 South America (Table Q3)
    - 424.5 Atlantic islands (Table Q3)
    - 425 Europe (Table Q3)
    - 426 Asia (Table Q3)
    - 427 Africa (Table Q3)
    - 428 Australia
    - 428.2 New Zealand
    - 428.5 Pacific islands (Table Q3)
    - 429 Arctic regions
    - 429.5 Antarctica
    - 429.6 Tropics

## Invertebrates

## Mollusca -- Continued

## Systematic divisions

- 430.1 Amphineura (Chitons; solenogasters)  
 430.15 Monoplacaphora  
 Cephalopoda  
 430.2 General works and orders  
 430.3.A-Z By family, A-Z  
 430.3.A73 Architeuthidae  
 430.3.B3 Bathyteuthidae  
 430.3.C72 Cranchiidae  
 430.3.C9 Cycloteuthidae  
 430.3.E56 Enoploteuthidae  
 430.3.J68 Joubiniteuthidae  
 430.3.L8 Loliginidae  
 430.3.N4 Nautilidae  
 430.3.O2 Octopodidae  
 430.3.O5 Ommastrephidae  
 430.3.O6 Onychoteuthidae  
 430.3.S47 Sepiidae  
 430.3.S49 Sepiolidae (Bobtail squids)  
 430.3.S65 Spirulidae  
 Gastropoda (Snails)  
 430.4 General works and orders  
 430.5.A-Z By family, A-Z  
 430.5.A18 Abalones, see QL430.5.H34  
 430.5.A2 Abysochrysidae  
 430.5.A22 Achatinellidae  
 430.5.A23 Achatinidae  
 430.5.A24 Aciculidae  
 430.5.A26 Aclididae  
 430.5.A28 Acmaeidae  
 430.5.A28 Acroloxidae  
 430.5.A29 Actaeonidae  
 430.5.A45 Aeolidiidae  
 430.5.A5 Amastridae  
 430.5.A57 Amnicolidae, see QL430.5.H9  
 430.5.A63 Ampullariidae  
 430.5.A66 Ancylidae  
 430.5.A69 Aplysiidae  
 430.5.A7 Architectonicidae  
 430.5.A7 Arionidae  
 430.5.A8 Atlantidae  
 430.5.A85 Atyidae  
 430.5.B58 Auriculidae, see QL430.5.E45  
 430.5.B73 Bithyniidae  
 430.5.B75 Bradybaenidae  
 430.5.B8 Buccinidae  
 430.5.B84 Bulimulidae  
 430.5.B84 Bulinidae  
 430.5.C18 Caecidae  
 430.5.C22 Calyptraeidae  
 430.5.C25 Camaenidae

## Invertebrates

## Mollusca

## Systematic divisions

## Gastropoda (Snails)

## By family, A-Z -- Continued

- 430.5.C26 Cancellariidae  
 430.5.C3 Cassidae  
 430.5.C35 Cavolinidae  
 430.5.C38 Cerionidae  
 430.5.C4 Cerithiidae  
 430.5.C43 Cerithiopsidae  
 430.5.C49 Chilinidae  
 430.5.C53 Chondropomatidae  
 430.5.C56 Chromodorididae  
 430.5.C57 Clausiliidae  
 430.5.C6 Clionidae  
 430.5.C73 Columbelloidae  
 430.5.C75 Conidae  
 Cowries, see QL430.5.C94  
 430.5.C82 Cyclophoridae  
 Cyclostomidae, see QL430.5.P63  
 Cylindrellidae, see QL430.5.U68  
 Cymatiidae  
 430.5.C93 Cypraeidae (Cowries)  
 430.5.C94 Diastomatidae  
 430.5.D43 Dolabriferidae  
 430.5.D55 Dorididae  
 430.5.D6 Ellobiidae  
 430.5.E45 Elysiidae  
 430.5.E48 Endodontidae  
 430.5.E5 Entoconchidae  
 430.5.E55 Epitoniidae  
 430.5.E6 Eulimidae  
 430.5.E9 Fasciolaridae  
 430.5.F2 Ficidae  
 430.5.F53 Fissurellidae  
 430.5.F57 Flabellinidae  
 430.5.F58 Gadiniidae  
 430.5.G34 Haliotidae (Abalones)  
 430.5.H34 Helicarionidae  
 430.5.H37 Helicidae  
 430.5.H4 Helicidae  
 430.5.H45 Helicidae  
 430.5.H46 Helminthoglyptidae  
 Hermaeidae, see QL430.5.S75  
 430.5.H9 Hydrobiidae  
 430.5.J3 Janellidae  
 430.5.J36 Janthinidae  
 430.5.J8 Juliidae  
 430.5.L2 Lamellariidae  
 430.5.L3 Lepetidae  
 430.5.L4 Limacidae  
 430.5.L58 Limnaeidae, see QL430.5.L85  
 Littorinidae

## Invertebrates

## Mollusca

## Systematic divisions

## Gastropoda (Snails)

## By family, A-Z -- Continued

- |           |                                |
|-----------|--------------------------------|
| 430.5.L85 | Lymnaeidae                     |
| 430.5.M3  | Marginellidae                  |
|           | Melaniidae, see QL430.5.T45    |
| 430.5.M44 | Melanopsidae                   |
| 430.5.M47 | Melongenidae                   |
| 430.5.M57 | Mitridae                       |
| 430.5.M9  | Muricidae                      |
| 430.5.N3  | Nassariidae                    |
| 430.5.N35 | Naticidae                      |
| 430.5.N5  | Neritidae                      |
| 430.5.O5  | Olividae                       |
| 430.5.O73 | Oreohelicidae                  |
| 430.5.O78 | Orthalicidae                   |
| 430.5.P15 | Partulidae                     |
| 430.5.P18 | Patellidae                     |
| 430.5.P23 | Phasianellidae                 |
| 430.5.P25 | Philomycidae                   |
| 430.5.P35 | Phylliroidae                   |
| 430.5.P37 | Physidae                       |
| 430.5.P46 | Planaxidae                     |
| 430.5.P48 | Planorbidae                    |
| 430.5.P49 | Pleurobranchidae               |
| 430.5.P5  | Pleuroceridae                  |
| 430.5.P6  | Polygyridae                    |
| 430.5.P63 | Pomatiasidae                   |
| 430.5.P64 | Pomatiopsidae                  |
|           | Proserpinidae, see QL430.5.H45 |
| 430.5.P9  | Pupillidae                     |
| 430.5.P92 | Pupinidae                      |
| 430.5.P95 | Pyramidellidae                 |
| 430.5.R45 | Rhodopidae                     |
| 430.5.R48 | Rhytididae                     |
| 430.5.R57 | Rissoidae                      |
|           | Scalariidae, see QL430.5.E6    |
| 430.5.S25 | Scissurellidae                 |
| 430.5.S56 | Siphonariidae                  |
| 430.5.S74 | Stiliferidae                   |
| 430.5.S75 | Stiligeridae                   |
| 430.5.S78 | Streptaxidae                   |
| 430.5.S8  | Strombidae                     |
| 430.5.S83 | Strophocheilidae               |
| 430.5.T25 | Terebridae                     |
| 430.5.T3  | Testacellidae                  |
| 430.5.T35 | Tethyidae                      |
| 430.5.T45 | Thiaridae                      |
| 430.5.T63 | Tonnidae                       |
| 430.5.T65 | Tornidae                       |
| 430.5.T7  | Tritoniidae                    |

## Invertebrates

## Mollusca

## Systematic divisions

## Gastropoda (Snails)

## By family, A-Z -- Continued

- 430.5.T78 Truncatellidae  
 430.5.T85 Turbinellidae  
 430.5.T9 Turbinidae  
 430.5.T95 Turridae  
 430.5.U68 Urocoptidae  
 430.5.U7 Urocyclidae  
 430.5.V34 Vaginulidae, see QL430.5.V4  
 430.5.V36 Valloniidae  
 Valvatidae  
 Vasidae, see QL430.5.T85  
 430.5.V4 Veronicellidae  
 430.5.V65 Vitronellidae  
 430.5.V7 Viviparidae  
 430.5.V75 Volutidae  
 430.5.V77 Volutomitridae  
 430.5.X46 Xenophoridae  
 430.5.Z6 Zonitidae

## Bivalvia (Lamellibranchia; pelecypoda; clams)

## General works and orders

## By family, A-Z

- 430.6  
 430.7.A-Z  
 430.7.A34 Amblemidae  
 430.7.A4 Anatinidae  
 430.7.A8 Astartidae  
 430.7.C2 Cardiidae  
 430.7.C53 Chamidae  
 430.7.C67 Corbiculidae  
 430.7.C69 Corbulidae  
 430.7.C8 Crassatellidae  
 Cyrenidae, see QL430.7.C67  
 430.7.D55 Dimyidae  
 430.7.D65 Donacidae  
 430.7.D8 Dreissenidae  
 430.7.G23 Gastrochaenidae  
 430.7.G55 Glossidae  
 430.7.H53 Hiatellidae  
 430.7.H87 Hyriidae  
 430.7.L35 Lametilidae  
 430.7.L4 Ledidae  
 430.7.L5 Limidae  
 430.7.L8 Lucinidae  
 430.7.M3 Mactridae  
 430.7.M37 Margaritiferidae  
 430.7.M85 Mycetopodidae  
 430.7.M9 Myidae  
 430.7.M95 Mytilidae  
 430.7.N85 Nuculanidae  
 430.7.N9 Nuculidae  
 430.7.O9 Ostreidae (Oysters)

## Invertebrates

## Mollusca

## Systematic divisions

Bivalvia (Lamellibranchia; pelecypoda; clams)

By family, A-Z -- Continued

- 430.7.P3 Pectinidae  
 430.7.P48 Philobryidae  
 430.7.P5 Pholadidae  
 430.7.P56 Pinnidae  
 430.7.P59 Pisidiidae  
 430.7.P7 Pristiglomidae  
 430.7.P75 Psammobiidae  
 430.7.P77 Pteriidae (Pearl oysters)  
 430.7.S43 Semelidae  
 430.7.S5 Siliculidae  
 430.7.S6 Solenidae  
 (430.7.S65) Sphaeriidae  
     see QL430.7.P59
- 430.7.S68 Spondylidae  
 430.7.T3 Tellinidae  
 430.7.T4 Teredinidae  
 430.7.T55 Tindariidae  
 430.7.T7 Tridacnidae  
 430.7.U6 Unionidae  
 430.7.V5 Veneridae
- 430.8 Scaphopoda (Tusk shells)
- 431 Anatomy and morphology  
 431.2 Physiology  
 431.3 Reproduction and spawning  
 432 Miscellany and curiosa
- Arthropoda
- 434.A1 Periodicals, societies, congresses, serial  
     collections, yearbooks
- 434.A3-Z General works, treatises, and textbooks
- 434.13 Pictorial works and atlases  
 434.14 Popular works  
 434.15 Juvenile works
- 434.2 Classification  
 434.3 Catalogs and collections  
 434.35 Evolution. Speciation  
 434.4 Study and teaching. Research  
 434.45 Poisonous arthropods. Dangerous arthropods
- Geographical distribution  
     For geographical distribution of systematic  
     divisions, see the division below
- 434.5 General works  
 434.52 North America (United States and Canada)  
     (Table Q3)  
 434.53 Mexico, Central America, and West Indies  
     (Table Q3)  
 434.54 South America (Table Q3)  
 434.55 Europe (Table Q3)  
 434.56 Asia (Table Q3)

## Invertebrates

## Arthropoda

## Geographical distribution -- Continued

- 434.57 Africa (Table Q3)  
 434.58 Australasia and Indo-Pacific islands (Table Q3)  
 434.59 Polar regions  
 434.6 Tropics  
 434.7 Anatomy and morphology  
 434.715 Cytology  
 434.72 Physiology  
 434.8 Behavior

## Crustacea

- 435.A1 Periodicals, societies, congresses, serial collections, yearbooks  
 435.A3-Z General works, treatises, and textbooks  
 436 Pictorial works and atlases  
 437 Popular works  
 437.2 Juvenile works  
 438 Classification  
 438.2 Catalogs and collections  
 438.5 Evolution. Phylogeny  
 Geographical distribution  
     For geographical distribution of systematic divisions, see QL444.A +
- 441 General works  
 441.1 North America (United States and Canada) (Table Q3)  
 441.2 Mexico, Central America, and West Indies (Table Q3)  
 441.3 South America (Table Q3)  
 441.4 Europe (Table Q3)  
 441.5 Asia (Table Q3)  
 441.6 Africa (Table Q3)  
 441.7 Australia  
 441.75 New Zealand  
 441.8 Pacific islands (Table Q3)  
 441.9 Arctic regions  
 441.95 Antarctica  
 441.96 Tropics
- 444.A-Z Systematic divisions. By subclasses and orders, A-Z  
     Class here works on species, genera, and families by order
- Branchiopoda  
 444.B8 General works  
 444.B815 Anostraca (Fairy shrimps)  
 444.B83 Cladocera (Water fleas)  
 444.B834 Conchostraca (Clam shrimps)  
 444.B86 Notostraca (Tadpole shrimps)  
 444.B9 Branchiura (Fish lice)  
 444.C4 Cephalocarida  
 Cirripedia  
 444.C5 General works

- Invertebrates  
 Arthropoda  
 Crustacea  
 Systematic divisions.  
 By subclasses and orders, A-Z  
 Cirripedia -- Continued  
 444.C52 Acrothoracica  
 444.C527 Ascothroacica  
 444.C57 Rhizocephala  
 444.C58 Thoracica (Barnacles)  
 Copepoda  
 444.C7 General works  
 444.C72 Calanoida  
 444.C722 Caligoida  
 444.C73 Cyclopoida  
 444.C74 Harpacticoida  
 444.C75 Lernaepodoida  
 444.C756 Monstrilloida  
 444.C76 Notodelphyoida  
 444.C78 Poecilostomatoid  
 Entomostraca, see QL435 +  
 Malacostraca  
 444.M3 General works  
 444.M315 Amphipoda (Sand hoppers; whale lice)  
 444.M317 Anaspidae  
 444.M32 Bathynellacea  
 444.M328 Cumacea  
 444.M33 Decapoda (Shrimps; lobsters; crabs)  
 444.M338 Euphausiacea  
 444.M34 Isopoda (Pill bugs; wood lice)  
 444.M347 Leptostraca  
 444.M35 Mysidacea (Opossum shrimps)  
 444.M37 Spelaeogriphacea  
 444.M375 Stomatopoda  
 444.M378 Stygocaridacea  
 444.M38 Tanaidacea  
 444.M384 Thermosbaenacea  
 444.M9 Mystacocarida  
 Ostracoda (Seed shrimps)  
 444.O8 General works  
 444.O85 Myodocopida  
 444.O86 Podocopida  
 445 Anatomy and morphology  
 445.2 Physiology  
 447 Pycnogonida (Pantopoda)  
 447.3 Pentastomida (Linguatulida; tongue worms)  
 447.5 Tardigrada (Water bears)  
 447.7 Merostomata (Xiphosura)  
 448 Onychophora  
 Myriapoda  
 449 General works, treatises, and textbooks



## Invertebrates

## Arthropoda

## Myriapoda -- Continued

## Geographical distribution

For geographical distribution of systematic divisions, see QL449.5+

- 449.3 General works  
 449.32 North America (United States and Canada)  
 (Table Q3)  
 449.35 Mexico, Central America, and West Indies  
 (Table Q3)  
 449.37 South America (Table Q3)  
 449.4 Europe (Table Q3)  
 449.42 Asia (Table Q3)  
 449.44 Africa (Table Q3)  
 449.46 Australasia and Indo-Pacific islands  
 (Table Q3)  
 449.48 Polar regions  
 449.49 Tropics

## Systematic divisions

Class here works on species, genera, and families by family; high taxa by class

## Chilopoda (Centipedes)

- 449.5 General works and orders  
 449.55.A-Z By family, A-Z  
 449.55.C4 Cermatobiidae  
 449.55.C7 Craterostigmidae  
 449.55.C78 Cryptopidae  
 449.55.D5 Dignathodontidae  
 449.55.E8 Ethopolyidae  
 449.55.G4 Geophilidae  
 449.55.G66 Gonibregmatidae  
 449.55.G68 Gosibiidae  
 449.55.H4 Henicopidae  
 449.55.H5 Himantariidae  
 449.55.L5 Lithobiidae  
 449.55.M4 Mecistocephalidae  
 449.55.N4 Neogeophilidae  
 449.55.O7 Oryidae  
 449.55.S25 Schendylidae  
 449.55.S3 Scolopendridae  
 449.55.S37 Scutigerae  
 449.55.S63 Sogonidae  
 449.55.S66 Soniphilidae  
 449.55.W3 Watobiidae

## Diplopoda (Millipedes)

- 449.6 General works and orders  
 449.65.A-Z By family, A-Z  
 449.65.A6 Andrognathidae  
 449.65.A8 Atopetholidae  
 449.65.B4 Blaniulidae  
 449.65.C24 Callipodidae  
 449.65.C25 Cambalidae

## Invertebrates

## Arthropoda

## Myriapoda

## Systematic divisions

## Diplopoda (Millipedes)

## By family, A-Z -- Continued

- |             |                                    |
|-------------|------------------------------------|
| 449.65.C28  | Caseyidae                          |
| 449.65.C37  | Chelodesmidae                      |
| 449.65.C4   | Chordeumidae                       |
| 449.65.C5   | Cleidogonidae                      |
| 449.65.C6   | Conotylidae                        |
| 449.65.C72  | Craspedosomidae                    |
| 449.65.C79  | Cryptodesmidae                     |
| 449.65.E87  | Eurymerodesmidae                   |
| 449.65.E878 | Euryuridae                         |
| 449.65.G4   | Gervaisiidae                       |
| 449.65.G5   | Glomeridae                         |
| 449.65.G53  | Glomeridesmidae                    |
| 449.65.H37  | Harpagophoridae                    |
| 449.65.J8   | Julidae                            |
| 449.65.L4   | Leioderidae                        |
| 449.65.L9   | Lysiopetalidae                     |
| 449.65.N4   | Nearctodesmidae                    |
| 449.65.O6   | Oniscodesmidae                     |
| 449.65.O95  | Oxydesmidae                        |
| 449.65.P18  | Pachybolidae                       |
| 449.65.P22  | Paeromopidae                       |
| 449.65.P27  | Paradoxsomatidae                   |
| 449.65.P273 | Paraiulidae                        |
| 449.65.P42  | Platydesmidae                      |
| 449.65.P427 | Platyrrhacidae                     |
| 449.65.P64  | Polydesmidae                       |
| 449.65.P648 | Polyxenidae                        |
| 449.65.P649 | Polyzoniidae                       |
| 449.65.R4   | Rhinocricidae                      |
| 449.65.S56  | Siphoniulidae                      |
| 449.65.S565 | Siphonophoridae                    |
| 449.65.S64  | Sphaeridesmidae                    |
| 449.65.S645 | Sphaerotheridae                    |
| 449.65.S65  | Spirobolidae                       |
| 449.65.S655 | Spirostreptidae                    |
|             | Strongylosomidae, see QL449.65.P27 |
| 449.65.S88  | Stylodesmidae                      |
| 449.65.S95  | Synxenidae                         |
| 449.65.T56  | Tingupidae                         |
| 449.65.T75  | Trichopolydesmidae                 |
| 449.65.V34  | Vanhoeffeniidae                    |
| 449.65.X9   | Xystodesmidae                      |
|             | Pauropoda                          |
| 449.7       | General works                      |
| 449.75.A-Z  | By family, A-Z                     |
| 449.75.B7   | Brachypauropodidae                 |
| 449.75.E8   | Eurypauropodidae                   |

- Invertebrates
  - Arthropoda
    - Myriapoda
      - Systematic divisions
        - Pauropoda
          - By family, A-Z -- Continued
          - 449.75.P3 Pauropodidae
        - Symphyla
          - 449.8 General works
          - 449.85.A-Z By family, A-Z
          - 449.85.G4 Geophilellidae
          - 449.85.S25 Scolopendrellidae
          - 449.85.S3 Scutigereidae
        - 449.9 Anatomy and morphology
        - 449.92 Physiology
      - Arachnida (Scorpions; spiders; mites; etc.)
        - 451 General works, treatises, and textbooks
        - 452 Popular works
        - 452.2 Juvenile works
        - 452.8 Classification
        - 453 Catalogs and collections
        - Geographical distribution
          - For geographical distribution of systematic divisions, see QL458+
          - 453.1 North America (United States and Canada) (Table Q3)
          - 453.2 Mexico, Central America, and West Indies (Table Q3)
          - 453.3 South America (Table Q3)
          - 453.35 Atlantic islands (Table Q3)
          - 453.4 Europe (Table Q3)
          - 453.5 Asia (Table Q3)
          - 453.6 Africa (Table Q3)
          - 453.7 Australia
          - 453.75 New Zealand
          - 453.8 Pacific islands (Table Q3)
          - 453.9 Arctic regions
          - 453.95 Antarctica
          - 453.96 Tropics
      - Systematic divisions
        - Acari (Acarina). Mites
          - 458 General works
          - 458.2.A-Z By family, A-Z
          - 458.2.A3 Acaridae
          - 458.2.A44 Alloptidae
          - 458.2.A45 Ameronothridae
          - 458.2.A5 Analgesidae
          - 458.2.A58 Anystidae
          - 458.2.A74 Argasidae
          - 458.2.A77 Arrenuridae
          - 458.2.B4 Bdellidae
          - 458.2.B7 Brachychthoniidae
          - 458.2.C28 Caeculidae

## Invertebrates

## Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

Acari (Acarina). Mites

By family, A-Z -- Continued

|            |                           |
|------------|---------------------------|
| 458.2.C3   | Carpoglyphidae            |
| 458.2.C37  | Cercomegistidae           |
| 458.2.C4   | Cheyletidae               |
| 458.2.C8   | Cunaxidae                 |
| 458.2.C9   | Cytoditidae               |
| 458.2.D45  | Demodicidae               |
| 458.2.D47  | Dermanyssidae             |
| 458.2.D475 | Dermoglyphidae            |
| 458.2.D56  | Diptilomiopidae           |
| 458.2.E45  | Echimyopodidae            |
| 458.2.E6   | Epidermoptidae            |
| 458.2.E73  | Eremaeidae                |
| 458.2.E75  | Eriophyidae               |
| 458.2.E78  | Erythraeidae              |
| 458.2.E8   | Eupodidae                 |
| 458.2.E84  | Eustathiidae              |
| 458.2.E9   | Eylaidae                  |
| 458.2.F3   | Falculiferidae            |
| 458.2.G34  | Galumnidae                |
|            | Gamasidae, see QL458.2.P3 |
| 458.2.G4   | Glycyphagidae             |
| 458.2.H3   | Halacaridae               |
| 458.2.H38  | Hermanniidae              |
| 458.2.H4   | Heterocheylidae           |
| 458.2.H9   | Hydrachnidae              |
| 458.2.H98  | Hydryphantidae            |
| 458.2.I9   | Ixodidae                  |
| 458.2.K5   | Knemidokoptidae           |
| 458.2.L33  | Laelapidae                |
| 458.2.L54  | Limnocharidae             |
| 458.2.L58  | Listrophoridae            |
| 458.2.L67  | Lordalycidae              |
| 458.2.M3   | Macronyssidae             |
| 458.2.M9   | Myobiidae                 |
| 458.2.M93  | Myocoptidae               |
| 458.2.O74  | Oribatidae                |
| 458.2.P3   | Parasitidae               |
| 458.2.P35  | Penthaleidae              |
| 458.2.P37  | Phytoptidae               |
| 458.2.P4   | Phytoseiidae              |
| 458.2.P6   | Podapolipodidae           |
| 458.2.P65  | Pontarachnidae            |
| 458.2.P74  | Proctophyllodidae         |
| 458.2.P8   | Psoroptidae               |
| 458.2.P85  | Pterolichidae             |
| 458.2.P87  | Pterygosomatidae          |
| 458.2.P9   | Pyemotidae                |

## Invertebrates

## Arthropoda

## Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Acari (Acarina). Mites

## By family, A-Z -- Continued

- 458.2.P95  
 458.2.R45  
 458.2.R47  
 458.2.R66  
 458.2.S25  
 458.2.S3  
 458.2.S7  
 458.2.S75  
 458.2.S8  
 458.2.S89  
 458.2.S9  
 458.2.T3  
 458.2.T36  
 458.2.T4  
 458.2.T5  
 458.2.T7  
 458.2.T75  
 458.2.T76  
 458.2.U5  
 458.2.U7  
 458.2.V37  
 458.2.X65  
 458.2.Z4
- Pyroglyphidae  
 Rhagidiidae  
 Rhodacaridae  
 Rosensteiniidae  
 Sarcoptidae  
 Scutacaridae  
 Sperchonidae  
 Spinturnicidae  
 Stigmaeidae  
 Syringobiidae  
 Syringophilidae  
 Tarsonemidae  
 Tenuipalpidae  
 Tetranychidae  
 Thyasidae  
 Trachytidae  
 Trombiculidae  
 Trombidiidae  
 Unionicolidae  
 Uropodidae  
 Varroidae  
 Xolalgidae  
 Zerconidae
- Amblypygi (Phryneida)  
 General works  
 By family, A-Z  
 Charonidae  
 Phrynidae  
 Tarantulidae
- Araneae (Araneida). Spiders  
 General works  
 By family, A-Z  
 Acanthoectenidae  
 Actinopodidae  
 Agelenidae  
 Amaurobiidae  
 Amaurobioididae, see QL458.42.A57  
 Ammoxenidae  
 Anapidae  
 Antrodiaetidae  
 Anyphaenidae  
 Araneidae  
 Archaeidae  
 Argiopidae, see QL458.42.A7  
 Attidae, see QL458.42.S24  
 Atypidae  
 Aviculariidae, see QL458.42.T5
- 458.3  
 458.32.A-Z  
 458.32.C4  
 458.32.P57  
 458.32.T3
- 458.4  
 458.42.A-Z  
 458.42.A2  
 458.42.A28  
 458.42.A3  
 458.42.A4  
 458.42.A45  
 458.42.A48  
 458.42.A5  
 458.42.A57  
 458.42.A7  
 458.42.A73
- 458.42.A8

## Invertebrates

## Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

Araneae (Araneida). Spiders

By family, A-Z -- Continued

|            |                                 |
|------------|---------------------------------|
| 458.42.B3  | Barychelidae                    |
| 458.42.C3  | Caponiidae                      |
| 458.42.C4  | Clubionidae                     |
| 458.42.C8  | Ctenidae                        |
| 458.42.C83 | Ctenizidae                      |
| 458.42.D44 | Desidae                         |
| 458.42.D5  | Dictynidae                      |
| 458.42.D53 | Diguetidae                      |
| 458.42.D55 | Dinopidae                       |
| 458.42.D56 | Dipluridae                      |
| 458.42.D9  | Dysderidae                      |
| 458.42.E7  | Eresidae                        |
|            | Eusparassidae, see QL458.42.H48 |
| 458.42.F5  | Filistatidae                    |
| 458.42.G5  | Gnaphosidae                     |
| 458.42.G7  | Gradungulidae                   |
| 458.42.H3  | Hadrotarsidae                   |
| 458.42.H33 | Hahniidae                       |
| 458.42.H47 | Hersiliidae                     |
| 458.42.H48 | Heteropodidae                   |
| 458.42.H6  | Homalonychidae                  |
| 458.42.H9  | Hypochilidae                    |
| 458.42.L4  | Leptonetidae                    |
| 458.42.L55 | Linyphiidae                     |
| 458.42.L56 | Liphistiidae                    |
| 458.42.L6  | Loxoscelidae                    |
| 458.42.L9  | Lycosidae                       |
| 458.42.M4  | Mecicobothriidae                |
| 458.42.M5  | Microstigmatidae                |
| 458.42.M53 | Migidae                         |
| 458.42.M54 | Mimetidae                       |
| 458.42.M97 | Mysmenidae                      |
| 458.42.N37 | Nemesiidae                      |
| 458.42.N4  | Nesticidae                      |
| 458.42.O3  | Ochyroceratidae                 |
| 458.42.O4  | Oecobiidae                      |
| 458.42.O6  | Oonopidae                       |
| 458.42.O9  | Oxyopidae                       |
| 458.42.P34 | Palpimanidae                    |
| 458.42.P37 | Paratropidae                    |
| 458.42.P4  | Pholcidae                       |
| 458.42.P47 | Pimoidae                        |
| 458.42.P5  | Pisauridae                      |
| 458.42.P6  | Platoridae                      |
| 458.42.P64 | Plectreuridae                   |
| 458.42.P7  | Prodidomidae                    |
| 458.42.P8  | Psechridae                      |

## Invertebrates

## Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

Araneae (Araneida). Spiders

By family, A-Z -- Continued

- 458.42.P9 Pycnothelidae  
 458.42.S24 Salticidae  
 458.42.S3 Scytodidae  
 458.42.S44 Selenopidae  
 458.42.S45 Senoculidae  
 458.42.S5 Sicariidae  
 Sparassidae, see QL458.42.H48  
 458.42.S7 Stenochilida  
 458.42.S9 Symphytognathidae  
 458.42.T44 Telmidae  
 458.42.T45 Tengellidae  
 458.42.T46 Tetrabelmidae  
 458.42.T48 Tetragnathidae  
 458.42.T5 Theraphosidae  
 458.42.T54 Theridiidae  
 458.42.T55 Theridiosomatidae  
 458.42.T56 Thomisidae  
 458.42.T6 Toxopidae  
 458.42.U4 Uloboridae  
 458.42.U7 Urocteidae  
 458.42.Z63 Zodariidae  
 458.42.Z67 Zoropsidae

Opiliones (Opiliona; Phalangiida)

- 458.5 General works  
 458.52.A-Z By family, A-Z  
 458.52.A8 Assamiidae  
 458.52.C6 Cosmetidae  
 458.52.G6 Gonyleptidae  
 458.52.I7 Ischyropsalidae  
 458.52.N4 Nemastomatidae  
 458.52.O5 Oncopodidae  
 458.52.P45 Phalangiidae  
 458.52.P46 Phalangodidae  
 458.52.S5 Sironidae  
 458.52.S9 Synthetonychidae  
 458.52.T75 Triaenonychidae  
 458.52.T76 Trogulidae

Palpigradi (Palpigradida)

- 458.55 General works  
 458.57.A-Z By family, A-Z  
 458.57.E9 Eukoeneniidae

Pseudoscorpiones (Book scorpions; Chelonethida; Pseudoscorpionida)

- 458.6 General works  
 458.62.A-Z By family, A-Z  
 458.62.C37 Chernetidae  
 458.62.C4 Chthoniidae

## Invertebrates

## Arthropoda

Arachnida (Scorpions; spiders; mites; etc.)

## Systematic divisions

## Pseudoscorpiones (Book

scorpions; Chelonethida;

Pseudoscorpionida)

By family, A-Z -- Continued

458.62.G3

Garypidae

458.62.H9

Hyidae

458.62.I3

Ideoroncidae

458.62.M4

Menthidae

458.62.N4

Neobisiidae

458.62.O4

Olpiidae

458.62.S9

Syarinidae

458.62.T7

Tridenchthoniidae

Ricinulei (Ricinuleida; Podogonata; Rhinogastra)

458.65

General works

458.67.A-Z

By family, A-Z

458.67.R5

Ricinoididae

Scorpiones (Scorpionida)

458.7

General works

458.72.A-Z

By family, A-Z

458.72.B6

Bothriuridae

458.72.B8

Buthidae

458.72.C4

Chactidae

458.72.D5

Diplocentridae

458.72.I95

Iuridae

458.72.S3

Scorpionidae

458.72.V4

Vejoividae

Solpugida (Solifugae; Sun spiders; Wind scorpions)

458.8

General works

458.82.A-Z

By family, A-Z

458.82.A4

Ammotrechidae

458.82.C4

Ceromidae

458.82.D3

Daesiidae

458.82.E7

Eremobatidae

458.82.G3

Galeodidae

458.82.H4

Hexisopodidae

458.82.K3

Karschiidae

458.82.M4

Melanoblossiidae

458.82.R4

Rhagodidae

458.82.S6

Solpugidae

Uropygi (Thelyphonida; Whip scorpions)

458.85

General works

458.87.A-Z

By family, A-Z

458.87.S3

Schizomidae

458.87.T4

Thelyphonidae

459

Anatomy and morphology

459.2

Physiology

## Insects

Cf. SB818+, Economic entomology



## Invertebrates

## Arthropoda

## Insects -- Continued

- 461 Periodicals, societies, congresses, serial collections, yearbooks
- 462 Collected works (nonserial)
- 462.3 Dictionaries and encyclopedias
- 462.4 Terminology, notation, abbreviations
- 462.5 History
- 463 General works, treatises, and textbooks
- 464 Field and laboratory manuals
- 465 Collection and preservation
- 466 Pictorial works and atlases
- 467 Popular works
- 467.2 Juvenile works
- 467.8 Rare and endangered species
- 467.9 Extinct insects
- 468 Classification. Nomenclature
- 468.2 Catalogs and collections
- 468.5 Study and teaching. Research
- 468.7 Evolution. Speciation
- 468.8 Poisonous insects. Dangerous insects
- Geographical distribution  
For geographical distribution of systematic divisions, see QL503+
- 469 General works  
Physiographic divisions  
Aquatic
- 472 General works
- 472.3 Marine
- 472.7 Urban
- Topographic divisions  
North America
- 473 General works  
United States
- 474 General works
- 475.A-Z By region or state, A-Z
- 476 Canada  
Latin America
- 476.5 General works
- 477 Mexico
- 478 Central America (Table Q3)
- 479 West Indies (Table Q3)
- 481 South America (Table Q3)
- Atlantic islands  
General works
- 481.4 General works
- 481.5 By individual island or group of islands, A-Z
- 482 Europe (Table Q3)
- 483 Asia (Table Q3)
- 485 Africa (Table Q3)
- Indian Ocean islands  
General works
- 486 General works
- 486.3.A-Z By individual island or group of islands, A-Z

- Invertebrates
  - Arthropoda
    - Insects
      - Geographical distribution
        - Topographic divisions -- Continued
          - 487 Australia
          - 487.5 New Zealand
          - 489 Pacific islands (Table Q3)
          - 491 Arctic regions
          - 491.5 Antarctica
          - 491.6 Tropics
        - 492.5 Immunology
        - 493 Genetics
        - 493.5 Molecular entomology
        - 494 Anatomy and morphology
        - 494.5 Metamorphosis
        - 494.8 Cytology
        - Physiology
          - 495 General works
          - 495.5 Development
        - 496 Behavior. Social life. Instinct
        - 496.15 Population dynamics
        - 496.2 Migration
        - 496.4 Ecology
        - 496.5 Sound and sound production
        - 496.7 Flight
        - 497 Miscellany and curiosa
      - Apterygota
        - 501 General works, treatises, and textbooks
        - Geographical distribution
          - For geographical distribution of systematic divisions, see QL503+
        - 502 General works
          - 502.1 North America (United States and Canada) (Table Q3)
          - 502.2 Mexico, Central America, and West Indies (Table Q3)
          - 502.3 South America (Table Q3)
          - 502.4 Europe (Table Q3)
          - 502.5 Asia (Table Q3)
          - 502.6 Africa (Table Q3)
          - 502.7 Australia
          - 502.75 New Zealand
          - 502.8 Pacific islands (Table Q3)
          - 502.9 Arctic regions
          - 502.95 Antarctica
          - 502.96 Tropics
        - Systematic divisions
          - Collembola
            - 503.A1 General works
            - 503.A3-Z By family, A-Z
            - 503.A3 Actaletidae
            - 503.D5 Dicyrtomidae

## Invertebrates

## Arthropoda

## Insects

## Apterygota

## Systematic divisions

## Collembola

## By family, A-Z -- Continued

503.E5

Entomobryidae

503.H9

Hypogastruridae

503.I8

Isotomidae

503.N4

Neelidae

503.O5

Oncopoduridae

503.O56

Onychiuridae

503.P6

Poduridae

503.S6

Sminthuridae

503.T6

Tomoceridae

## Entotrophi (Diplura)

503.4.A1

General works

503.4.A3-Z

By family, A-Z

503.4.C3

Campodeidae

503.4.J3

Japygidae

503.4.P7

Projapygidae

## Protura

503.6.A1

General works

503.6.A3-Z

By family, A-Z

503.6.A3

Acerentomidae

503.6.E6

Eosentomidae

503.6.P7

Protentomidae

## Thysanura

503.8.A1

General works

503.8.A3-Z

By family, A-Z

503.8.L4

Lepismatidae

503.8.M3

Machilidae

503.8.M4

Meinertellidae

503.8.N5

Nicoletiidae

504

Anatomy and morphology

504.2

Physiology

## Ephemeroptera (Plectoptera; mayflies)

505

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions, see QL505.3.A +

505.1

General works

505.2

North America (United States and Canada)  
(Table Q3)

505.22

Mexico, Central America, and West Indies  
(Table Q3)

505.23

South America (Table Q3)

505.24

Europe (Table Q3)

505.25

Asia (Table Q3)

505.26

Africa (Table Q3)

505.27

Australasia and Indo-Pacific islands  
(Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Ephemeroptera (Plecoptera; mayflies)

## Geographical distribution -- Continued

505.28

Polar regions

505.29

Tropics

505.3.A-Z

Systematic divisions. By family, A-Z

Ametropodidae, see QL505.3.S5

505.3.B33

Baetidae

505.3.B38

Baetiscidae

505.3.C3

Caenidae

505.3.E64

Ephemerellidae

505.3.E65

Ephemeridae

505.3.H4

Heptageniidae

505.3.L4

Leptophlebiidae

505.3.O4

Oligoneuridae

505.3.P3

Palingeniidae

505.3.P64

Polymitarcidae

505.3.P68

Potamanthidae

505.3.P76

Prosopistomatidae

505.3.S5

Siphonuridae

505.4

Anatomy and morphology

505.42

Physiology

## Blattaria (Cockroaches)

505.5

General works

Geographical distribution

For geographical distribution of systematic divisions, see QL505.7.A +

505.51

General works

505.6

North America (United States and Canada)

(Table Q3)

505.62

Mexico, Central America, and West Indies

(Table Q3)

505.63

South America (Table Q3)

505.64

Europe (Table Q3)

505.65

Asia (Table Q3)

505.66

Africa (Table Q3)

505.67

Australasia and Indo-Pacific islands

(Table Q3)

505.68

Polar regions

505.69

Tropics

505.7.A-Z

Systematic divisions. By family, A-Z

505.7.A73

Archiblattidae

505.7.A74

Areolariidae

505.7.A87

Attaphilidae

505.7.A88

Atticolidae

505.7.B4

Blaberidae

505.7.B48

Blattellidae

505.7.B485

Blattidae

505.7.C4

Chorisoneuridae

505.7.C6

Corydiidae

505.7.C7

Cryptocercidae

## Invertebrates

## Arthropoda

## Insects

## Blattaria (Cockroaches)

## Systematic divisions.

## By family, A-Z -- Continued

505.7.D5

Diplopteridae

505.7.E3

Ectobiidae

505.7.E7

Epilampridae

505.7.E9

Euthyrrhaphidae

505.7.H6

Homoeogamiidae

505.7.L3

Latindiidae

505.7.N62

Nocticolidae

505.7.N68

Nothoblattidae

505.7.N9

Nyctiboridae

505.7.O8

Ouloterygidae

505.7.O9

Oxyhaloidae

505.7.P33

Panchloridae

505.7.P34

Panesthiidae

505.7.P4

Perisphaeriidae

505.7.P45

Phyllodromiidae

505.7.P6

Polyphagidae

505.8

Anatomy and morphology

505.82

Physiology

## Orthoptera (Grasshoppers; locusts; etc.)

506

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions, see QL508.A+

507

General works

507.1

North America (United States and Canada)  
(Table Q3)

507.2

Mexico, Central America, and West Indies  
(Table Q3)

507.3

South America (Table Q3)

507.4

Europe (Table Q3)

507.5

Asia (Table Q3)

507.6

Africa (Table Q3)

507.7

Australia

507.75

New Zealand

507.8

Pacific islands (Table Q3)

507.9

Arctic regions

507.95

Antarctica

507.96

Tropics

508.A-Z

Systematic divisions. By family, A-Z

508.A2

Acrididae (Grasshoppers)

Bacillidae, see QL509.7.P58

Bacteriidae, see QL509.7.P53

Bacunculidae, see QL509.7.P58

Blattidae, see QL505.5+

508.C9

Cylindrachetidae

508.E5

Eneopteridae

508.G7

Gryllacrididae

## Invertebrates

## Arthropoda

## Insects

## Orthoptera (Grasshoppers; locusts; etc.)

## Systematic divisions.

## By family, A-Z -- Continued

- 508.G8 Gryllidae (Crickets)  
 508.G86 Grylloblattidae  
 508.G87 Gryllotalpidae (Mole crickets)  
 508.L45 Lentulidae  
 Locustidae, see QL508.A2  
 508.M4 Mantidae (Mantids)  
 508.M6 Mogoplistidae  
 508.M9 Myrmecophilidae  
 508.O4 Oecanthidae  
 508.P34 Pamphagidae  
 Phasmatidae, see QL509.7.P53  
 508.P53 Phasmodidae  
 Phylliidae, see QL509.7.P58  
 508.P6 Pneumoridae  
 508.P7 Proscopiidae  
 508.R65 Romaleidae (Lubber grasshoppers)  
 508.S7 Stenopelmatidae (Jerusalem crickets)  
 508.T38 Tetrigidae (Pigmy grasshoppers)  
 508.T4 Tettigoniidae (Katydid; Longhorn grasshoppers)  
 508.T45 Thericleidae  
 Timematidae, see QL509.7.P58  
 508.T7338 Tridactylidae (Pigmy mole crickets)  
 508.T74 Trigonidiidae  
 509 Anatomy and morphology  
 509.2 Physiology  
 Phasmoptera (Phasmida; Stick insects)  
 509.5 General works  
 Geographical distribution  
 For geographical distribution of systematic divisions, see QL509.7.A +  
 509.55 General works  
 509.6 North America (United States and Canada) (Table Q3)  
 509.62 Mexico, Central America, and West Indies (Table Q3)  
 509.63 South America (Table Q3)  
 509.64 Europe (Table Q3)  
 509.65 Asia (Table Q3)  
 509.66 Africa (Table Q3)  
 509.67 Australasia and Indo-Pacific islands (Table Q3)  
 509.68 Polar regions  
 509.69 Tropics  
 509.7.A-Z Systematic divisions, A-Z  
 509.7.P53 Phasmatidae  
 509.7.P58 Phylliidae

## Invertebrates

## Arthropoda

## Insects -- Continued

## Dermaptera (Earwigs)

510

General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions, see QL510.3.A +

510.15

General works

510.2

North America (United States and Canada)

(Table Q3)

510.22

Mexico, Central America, and West Indies

(Table Q3)

510.23

South America (Table Q3)

510.24

Europe (Table Q3)

510.25

Asia (Table Q3)

510.26

Africa (Table Q3)

510.27

Australasia and Indo-Pacific islands

(Table Q3)

510.28

Polar regions

510.29

Tropics

510.3.A-Z

Systematic divisions. By family, A-Z

510.3.A4

Allostethidae

510.3.A5

Anataeliidae

510.3.A52

Ancistrogastridae

510.3.A54

Anechuridae

510.3.A6

Apachyidae

510.3.A7

Arixeniidae

510.3.B7

Brachylabidae

510.3.C37

Carcinophoridae

510.3.C43

Cheliduridae

510.3.C48

Chelisochidae

510.3.D5

Diaperasticidae

510.3.D56

Diplatyidae

510.3.E3

Echinosomatidae

510.3.E8

Esphalmenidae

510.3.E9

Eudorniidae

510.3.F6

Forficulidae

510.3.H4

Hemimeridae

510.3.K3

Karschiellidae

510.3.L33

Labiduridae

510.3.L35

Labiidae

510.3.N46

Neolobophoridae

510.3.N48

Nesogastridae

510.3.O6

Opisthocosmiidae

510.3.P3

Parisolabidae

510.3.P4

Pericomidae

510.3.P5

Platylabiidae

510.3.P8

Psalididae

510.3.P94

Pygidicranidae

510.3.P97

Pyragridae

510.3.S6

Sparattidae

510.3.S66

Spongiphoridae

- Invertebrates  
 Arthropoda  
 Insects  
 Dermaptera (Earwigs)  
 Systematic divisions.  
 By family, A-Z -- Continued  
 510.3.S8 Strongylopsalididae  
 510.3.V3 Vandicidae  
 510.4 Anatomy and morphology  
 510.42 Physiology  
 Neuroptera  
 511 General works, treatises, and textbooks  
 Geographical distribution  
 For geographical distribution of systematic  
 divisions, see QL513.A +  
 512 General works  
 512.1 North America (United States and Canada)  
 (Table Q3)  
 512.2 Mexico, Central America, and West Indies  
 (Table Q3)  
 512.3 South America (Table Q3)  
 512.4 Europe (Table Q3)  
 512.5 Asia (Table Q3)  
 512.6 Africa (Table Q3)  
 512.7 Australia  
 512.75 New Zealand  
 512.8 Pacific islands (Table Q3)  
 512.9 Arctic regions  
 512.95 Antarctica  
 512.96 Tropics  
 513.A-Z Systematic divisions. By family, A-Z  
 513.A6 Aporhysidae  
 513.A7 Ascalaphidae (Owlflies)  
 513.B4 Berothidae (Beaded lacewings)  
 513.C5 Chrysopidae (Lacewings)  
 513.C65 Coniopterygidae (Dusty-wings)  
 513.C7 Corydalidae (Dobsonflies)  
 513.D5 Dilaridae (Pleasing lacewings)  
 Embiidae, see QL539 +  
 Ephemeroptera, see QL505 +  
 513.H5 Hemerobiidae (Brown lacewings)  
 513.I5 Inoceliidae  
 Isoptera, see QL529 +  
 513.I8 Ithonidae  
 513.M3 Mantispidae (Mantidflies)  
 513.M86 Myiodactylidae  
 513.M9 Myrmeleontidae (Antlions)  
 513.N4 Nemopteridae  
 513.N9 Nymphidae  
 Odonata, see QL520 +  
 513.O8 Osmylidae  
 Planipennia, see QL511 +  
 Plecoptera, see QL530 +



- Invertebrates
  - Arthropoda
    - Insects
      - Neuroptera
        - Systematic divisions.
          - By family, A-Z -- Continued
          - 513.P6 Polystoechotidae (Giant lacewings)
          - Psocidae, see QL515+
          - 513.P8 Psychopsidae
          - 513.R3 Raphidiidae (Snakeflies)
          - 513.S6 Sialidae (Alderflies)
          - 513.S65 Sisyridae (Spongillaflyies)
          - 513.S8 Stilbopterygidae
          - 513.S9 Sympherobiidae
          - Termitidae, see QL529+
          - 513.T7 Trichomatidae
          - 514 Anatomy and morphology
          - 514.2 Physiology
        - Psocoptera (Corrodentia)
          - 515 General works
          - 515.2.A-Z Systematic divisions, A-Z
          - 515.2.P4 Peripsocidae
          - 515.2.P73 Pseudocaecillidae
          - 515.5
        - Zoraptera
          - Trichoptera (Caddis flies)
            - 516 General works, treatises, and textbooks
            - Geographical distribution
              - For geographical distribution of systematic divisions, see QL518.A+
            - 517 General works
            - 517.1 North America (United States and Canada) (Table Q3)
            - 517.2 Mexico, Central America, and West Indies (Table Q3)
            - 517.3 South America (Table Q3)
            - 517.4 Europe (Table Q3)
            - 517.5 Asia (Table Q3)
            - 517.6 Africa (Table Q3)
            - 517.7 Australia
            - 517.75 New Zealand
            - 517.8 Pacific islands (Table Q3)
            - 517.9 Arctic regions
            - 517.95 Antarctica
            - 517.96 Tropics
          - 518.A-Z Systematic divisions. By family, A-Z
          - 518.A55 Anomalopsychidae
          - 518.B4 Beraeidae
          - 518.B7 Brachycentridae
          - 518.C3 Calamoceratidae
          - 518.G6 Goeridae
          - 518.H4 Helicopsychidae
          - 518.H94 Hydropsychidae
          - 518.H95 Hydroptilidae

## Invertebrates

## Arthropoda

## Insects

## Trichoptera (Caddis flies)

## Systematic divisions.

## By family, A-Z -- Continued

518.L48

Leptoceridae

518.L5

Limnephilidae

518.M6

Molannidae

518.O4

Odontoceridae

518.P45

Philopotamidae

518.P47

Phryganeidae

518.P6

Polycentropodidae

518.P8

Psychomyiidae

518.R4

Rhyacophilidae

518.S4

Sericostomatidae

518.X5

Xiphocentronidae

519

Anatomy and morphology

519.2

Physiology

## Odonata (Dragonflies, etc.)

520

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions, see QL520.3.A +

520.15

General works

520.2

North America (United States and Canada)

(Table Q3)

520.22

Mexico, Central America, and West Indies

(Table Q3)

520.23

South America (Table Q3)

520.24

Europe (Table Q3)

520.25

Asia (Table Q3)

520.26

Africa (Table Q3)

520.27

Australasia and Indo-Pacific islands

(Table Q3)

520.28

Polar regions

520.29

Tropics

## Systematic divisions. By family, A-Z

520.3.A-Z

Aeshnidae (Darners)

520.3.A4

Agrionidae

520.3.A5

Amphipterygidae

520.3.A6

Calopterygidae

520.3.C3

Chlorocyphidae

520.3.C64

Coenagrionidae (Narrow-winged damselflies)

520.3.C67

Cordulegastridae (Biddies)

520.3.C68

Corduliidae (Green-eyed skimmers)

520.3.E6

Epallagidae

520.3.E65

Epiophlebiidae

520.3.G6

Gomphidae (Clubtails)

520.3.H44

Heliocharitidae

520.3.H45

Hemiphlebiidae

520.3.L45

Lestidae (Spread-winged damselflies)

520.3.L46

Lestoideidae

## Invertebrates

## Arthropoda

## Insects

## Odonata (Dragonflies, etc.)

## Systematic divisions.

## By family, A-Z -- Continued

- 520.3.L6 Libellulidae (Skimmers)
- 520.3.M4 Megapodagrionidae
- 520.3.P4 Petaluridae (Graybacks)
- 520.3.P53 Platycnemididae
- 520.3.P58 Platystictidae
- 520.3.P6 Polythoridae
- 520.3.P7 Protoneuridae
- 520.3.P8 Pseudostigmatidae
- 520.3.S9 Synlestidae

520.4

## Anatomy and morphology

520.42

## Physiology

## Hemiptera (Heteroptera; bugs)

521

## General works, treatises, and textbooks

## Geographical distribution

## For geographical distribution of systematic divisions, see QL523.A +

522

## General works

522.1

North America (United States and Canada)  
(Table Q3)

522.2

Mexico, Central America, and West Indies  
(Table Q3)

522.3

## South America (Table Q3)

522.4

## Europe (Table Q3)

522.5

## Asia (Table Q3)

522.6

## Africa (Table Q3)

522.7

## Australia

522.75

## New Zealand

522.8

## Pacific islands (Table Q3)

522.9

## Arctic regions

522.95

## Antarctica

522.96

## Tropics

523.A-Z

## Systematic divisions. By family, A-Z

523.A35

## Aepophilidae

523.A4

## Alydidae

523.A5

## Anthocoridae (Flowerbugs)

523.A7

## Aradidae (Flatbugs)

523.B4

## Belostomatidae (Giant waterbugs)

523.B45

## Berytidae

## Capsidae, see QL523.M5

523.C6

## Cimicidae (Bedbugs, etc.)

523.C64

## Colobothristidae

523.C67

## Coreidae

523.C7

## Corimelaenidae

523.C75

## Corixidae (Water boatmen)

523.C9

## Cydnidae

523.D5

## Dipsocoridae

523.D74

## Drepanosiphidae

## Invertebrates

## Arthropoda

## Insects

## Hemiptera (Heteroptera; bugs)

## Systematic divisions.

## By family, A-Z -- Continued

|          |                                 |
|----------|---------------------------------|
| 523.D9   | Dysodiidae                      |
| 523.E65  | Enicocephalidae                 |
| 523.G4   | Gerridae (Water striders)       |
| 523.H4   | Hebridae                        |
| 523.H44  | Helotrephidae                   |
|          | Henicocephalidae, see QL523.E65 |
|          | Heteroptera, see QL521 +        |
|          | Homoptera, see QL525 +          |
| 523.H93  | Hydrometridae                   |
| 523.H96  | Hyocephalidae                   |
| 523.I83  | Isodermidae                     |
| 523.I85  | Isometopidae                    |
| 523.J6   | Joppeicidae                     |
| 523.L45  | Leotichidae                     |
| 523.L46  | Leptopodidae                    |
| 523.L9   | Lygaeidae                       |
| 523.M3   | Macroveliidae                   |
| 523.M4   | Mesoveliidae                    |
| 523.M47  | Microphysidae                   |
| 523.M5   | Miridae (Plantbugs)             |
| 523.N3   | Nabidae (Damselbugs)            |
| 523.N4   | Naucoridae (Creeping waterbugs) |
| 523.N46  | Neididae                        |
| 523.N5   | Nipidae (Water scorpions)       |
| 523.N53  | Nerthridae                      |
| 523.N6   | Notonectidae (Back swimmers)    |
| 523.O3   | Ochteridae                      |
| 523.P5   | Pentatomidae (Stinkbugs)        |
| 523.P53  | Phymatidae (Ambushbugs)         |
| 523.P55  | Piesmidae                       |
| 523.P57  | Plataspidae                     |
| 523.P576 | Ploiariidae                     |
| 523.P62  | Podopidae                       |
| 523.P64  | Polycetenidae                   |
| 523.P9   | Pyrrhocoridae                   |
| 523.R4   | Reduviidae (Assassinbugs)       |
| 523.R5   | Rhopalidae                      |
| 523.S25  | Saldidae (Shorebugs)            |
| 523.S3   | Schizopteridae                  |
| 523.S4   | Scutelleridae                   |
| 523.T3   | Tahitocoridae                   |
| 523.T4   | Termatophylidae                 |
| 523.T43  | Termitaphididae                 |
| 523.T48  | Thaumastotheriidae              |
| 523.T5   | Tingidae (Lacebugs)             |
| 523.V45  | Veliidae                        |
| 523.V46  | Velocipedidae                   |

## Invertebrates

## Arthropoda

## Insects

## Hemiptera (Heteroptera; bugs) -- Continued

524 Anatomy and morphology

524.2 Physiology

## Homoptera (Aphids; cicadas, etc.)

525 General works, treatises, and textbooks

## Geographical distribution

For geographical distribution of systematic divisions, see QL527.A+

526 General works

526.1 North America (United States and Canada)  
(Table Q3)526.2 Mexico, Central America, and West Indies  
(Table Q3)

526.3 South America (Table Q3)

526.4 Europe (Table Q3)

526.5 Asia (Table Q3)

526.6 Africa (Table Q3)

526.7 Australia

526.75 New Zealand

526.8 Pacific islands (Table Q3)

526.9 Arctic regions

526.95 Antarctica

526.96 Tropics

527.A-Z Systematic divisions. By family, A-Z

527.A2 Acanaloniidae

527.A25 Achilidae

527.A259 Achilixiidae

527.A3 Adelgidae

527.A4 Aethialoniidae

527.A44 Agallidae

Aleurodidae, see QL527.A5

527.A5 Aleyrodidae (Whiteflies)

527.A64 Aphididae (Aphids or plant lice)

527.A65 Apiomorphidae

Areopodidae, see QL527.D44

527.A8 Asterolecaniidae (Pit scales)

527.B9 Bythoscopidae

527.C35 Callaphididae

527.C4 Cercopidae (Spittlebugs)

527.C43 Cerococcidae

Chermidae, see QL527.P88

527.C49 Cicadellidae (Leafhoppers)

527.C5 Cicadidae (Cicadas)

527.C55 Cixiidae

527.C58 Clastopteridae

527.C6 Coccidae (Soft scales)

527.C65 Conchaspidae

527.C9 Cylirococcidae

527.D3 Dactylopiidae (Cochineal insects)

527.D44 Delphacidae

## Invertebrates

## Arthropoda

## Insects

Homoptera (Aphids; cicadas, etc.)

Systematic divisions.

By family, A-Z -- Continued

|         |                                |
|---------|--------------------------------|
| 527.D47 | Derbidae                       |
| 527.D5  | Diaspididae (Armored scales)   |
| 527.D53 | Dictyopharidae                 |
| 527.E73 | Eriococcidae                   |
| 527.E78 | Eriosomatidae                  |
| 527.E9  | Euacanthidae                   |
| 527.E97 | Eurybrachidae                  |
| 527.F4  | Flatidae                       |
| 527.F9  | Fulgoridae                     |
|         | Gyponidae, see QL527.C49       |
| 527.I8  | Issidae                        |
|         | Jassidae, see QL527.C49        |
| 527.K4  | Kermesidae                     |
| 527.K44 | Kerridae (Lac scales)          |
| 527.K5  | Kinnaridae                     |
| 527.K6  | Koebeliidae                    |
|         | Lacciferidae, see QL527.K44    |
| 527.L4  | Lecaniidae                     |
| 527.L44 | Ledridae                       |
| 527.L6  | Lophopidae                     |
| 527.M3  | Machaerotidae                  |
| 527.M32 | Macropsidae                    |
| 527.M37 | Margarodidae                   |
| 527.M4  | Meenoplidae                    |
| 527.M45 | Membracidae (Treehoppers)      |
|         | Monophlebidae, see QL527.M37   |
| 527.N5  | Nirvanidae                     |
| 527.N6  | Nogodinidae                    |
| 527.O7  | Ortheziidae (Ensign scales)    |
| 527.P3  | Paropiidae                     |
| 527.P44 | Peloriidae                     |
| 527.P45 | Penthimiidae                   |
| 527.P53 | Phenacoleachiidae              |
| 527.P56 | Phylloxeridae                  |
| 527.P6  | Pleidae                        |
| 527.P83 | Pseudococcidae (Mealybugs)     |
| 527.P88 | Psyllidae (Jumping plant lice) |
| 527.P93 | Putoidae                       |
| 527.P96 | Pythamidae                     |
| 527.R5  | Ricaniidae                     |
| 527.S5  | Signoretidae                   |
| 527.S8  | Stenocotidae                   |
|         | Tachardiidae, see QL527.K44    |
|         | Tettigellidae, see QL527.C49   |
| 527.T43 | Tettigometridae                |
| 527.T5  | Thaumastoscopidae              |
| 527.T6  | Tomaspididae                   |

## Invertebrates

## Arthropoda

## Insects

## Homoptera (Aphids; cicadas, etc.)

## Systematic divisions.

## By family, A-Z -- Continued

527.T7

## Tropiduchidae

527.U4

## Ulopidae

528

## Anatomy and morphology

528.2

## Physiology

## Isoptera (Termites)

529

## General works, treatises, and textbooks

## Geographical distribution

## For geographical distribution of systematic divisions, see QL529.3.A +

529.15

## General works

529.2

## North America (United States and Canada)

## (Table Q3)

529.22

## Mexico, Central America, and West Indies

## (Table Q3)

529.23

## South America (Table Q3)

529.24

## Europe (Table Q3)

529.25

## Asia (Table Q3)

529.26

## Africa (Table Q3)

529.27

## Australasia and Indo-Pacific islands

## (Table Q3)

529.28

## Polar regions

529.29

## Tropics

529.3.A-Z

## Systematic divisions. By family, A-Z

529.3.H6

## Hodotermitidae

529.3.K35

## Kalotermitidae

529.3.M3

## Mastotermitidae

529.3.R4

## Rhinotermitidae

529.3.S47

## Serritermitidae

529.3.T4

## Termitidae

529.3.T5

## Termopsidae

529.4

## Anatomy and morphology

529.42

## Physiology

## Plecoptera (Stoneflies)

530

## General works, treatises, and textbooks

## Geographical distribution

## For geographical distribution of systematic divisions, see QL530.3.A +

530.15

## General works

530.2

## North America (United States and Canada)

## (Table Q3)

530.22

## Mexico, Central America, and West Indies

## (Table Q3)

530.23

## South America (Table Q3)

530.24

## Europe (Table Q3)

530.25

## Asia (Table Q3)

530.26

## Africa (Table Q3)

- Invertebrates
  - Arthropoda
    - Insects
      - Plecoptera (Stoneflies)
        - Geographical distribution -- Continued
          - 530.27 Australasia and Indo-Pacific islands (Table Q3)
          - 530.28 Polar regions
          - 530.29 Tropics
          - 530.3.A-Z Systematic divisions. By family, A-Z
            - 530.3.A9 Austroperlidae
            - 530.3.C3 Capniidae
            - 530.3.C45 Chloroperlidae
            - 530.3.E9 Eustheniidae
            - 530.3.L47 Leptoperlidae
            - 530.3.L49 Leuctridae
            - 530.3.N4 Nemouridae
            - 530.3.P44 Peltoperlidae
            - 530.3.P47 Perlidae
            - 530.3.P48 Perlodidae
            - 530.3.P8 Pteronarcidae
            - 530.3.T3 Taeniopterygidae
          - 530.4 Anatomy and morphology
          - 530.42 Physiology
        - Diptera (Flies)
          - 531 General works, treatises, and textbooks
          - 532 Pictorial works and atlases
          - 533 Popular works
          - 533.2 Juvenile works
          - 534 Classification
          - 534.2 Catalogs and collections
          - Geographical distribution
            - For geographical distribution of systematic divisions, see QL536 +
          - 535 General works
            - 535.1 North America (United States and Canada) (Table Q3)
            - 535.2 Mexico, Central America, and West Indies (Table Q3)
            - 535.3 South America (Table Q3)
            - 535.4 Europe (Table Q3)
            - 535.5 Asia (Table Q3)
            - 535.6 Africa (Table Q3)
            - 535.7 Australia
            - 535.75 New Zealand
            - 535.8 Pacific islands (Table Q3)
            - 535.9 Arctic regions
            - 535.95 Antarctica
            - 535.96 Tropics
          - Systematic divisions. By family
            - 536 Culicidae (Mosquitoes)
            - 537.A-Z Other families, A-Z
              - 537.A3 Acroceridae



## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

## Systematic divisions. By family

## Other families, A-Z -- Continued

- 537.A4 Agromyzidae (Leafminerflies)  
 537.A45 Allactoneuridae  
 537.A5 Anthomyiidae  
 537.A53 Anthomyzidae  
 537.A6 Apioceridae  
 537.A85 Asilidae (Robberflies)  
 537.A88 Astiidae  
 537.A9 Aulacogastridae  
 537.B5 Bibionidae (Marchflies)  
 537.B56 Blepharoceridae  
 537.B64 Bolitophilidae  
 537.B65 Bombyliidae (Beeflies)  
 537.B7 Braulidae  
 537.C24 Calliphoridae (Blowflies)  
 537.C25 Canaceidae  
 537.C26 Canthyloscelidae  
 537.C27 Carnidae  
 537.C33 Cecidomyiidae (Gall midges)  
 537.C35 Celyphidae  
 537.C37 Ceratopogonidae (Biting midges)  
 537.C376 Ceroplatidae  
 537.C4 Chamaemyiidae  
 537.C43 Chaoboridae (Phantom midges)  
 537.C455 Chiromyzidae  
 537.C456 Chironomidae (Tendipedidae; midges)  
 537.C46 Chloropidae  
 537.C49 Chyromyiidae  
 537.C5 Clusiidae  
 537.C56 Cnemospathidae  
 537.C634 Coelopidae  
 537.C636 Coenomyiidae  
 537.C65 Conopidae  
 537.C673 Cordyluridae  
 537.C69 Corethridae, see QL537.C43  
 537.C7 Corynoscelidae  
 Cryptochaetidae  
 Culicidae, see QL536  
 537.C8 Cuterebridae (Rabbit bots; rodent bots)  
 537.C9 Cylindrotomidae  
 537.D47 Deuterophlebiidae  
 537.D48 Dexiidae  
 537.D52 Diadocidiidae  
 537.D53 Diastatidae  
 537.D56 Diopsidae  
 537.D58 Ditomyiidae  
 537.D59 Dixidae  
 537.D6 Dolichopodidae (Long-legged flies)

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

- |         |                                   |
|---------|-----------------------------------|
| 537.D76 | Drosophilidae (Vinegarflies)      |
| 537.D79 | Dryomyzidae                       |
| 537.E4  | Empididae (Danceflies)            |
| 537.E7  | Ephydriidae                       |
|         | Euribiidae, see QL537.T42         |
| 537.G3  | Gasterophilidae (Horse bots)      |
| 537.G4  | Glossinidae                       |
|         | Heleidae, see QL537.C37           |
| 537.H44 | Helomyzidae                       |
| 537.H48 | Hesperinidae                      |
| 537.H54 | Hilarimorphidae                   |
| 537.H57 | Hippoboscidae (Louseflies)        |
|         | Hyperoscelididae, see QL537.C26   |
|         | Hypodermatidae, see QL537.O4      |
| 537.I76 | Ironomyiidae                      |
| 537.L3  | Lauxaniidae                       |
| 537.L5  | Limoniidae                        |
| 537.L6  | Lonchaeidae                       |
| 537.L63 | Lonchopteridae (Musidoridae)      |
| 537.L9  | Lygistorrhinidae                  |
| 537.M3  | Macroceridae (Euphrosynidae)      |
| 537.M35 | Manotidae                         |
| 537.M4  | Megamerinidae                     |
|         | Metopiidae, see QL537.S25         |
| 537.M43 | Micropezidae                      |
| 537.M5  | Milichiidae                       |
| 537.M6  | Mormotomyiidae                    |
| 537.M8  | Muscidae (Houseflies, etc.)       |
| 537.M9  | Mycetobiidae                      |
| 537.M92 | Mycetophilidae (Fungivoridae)     |
| 537.M93 | Mydidae                           |
| 537.N44 | Nemestrinidae                     |
| 537.N46 | Neottiophilidae                   |
| 537.N47 | Neriidae                          |
| 537.N6  | Nothybidae                        |
| 537.N9  | Nycteribiidae                     |
| 537.N94 | Nymphomyiidae                     |
| 537.O3  | Oдиниidae                         |
| 537.O4  | Oestridae (Botflies; warbleflies) |
| 537.O7  | Opomyzidae                        |
| 537.O8  | Otitidae                          |
| 537.P3  | Pachyneuridae                     |
| 537.P34 | Pallopteridae                     |
| 537.P35 | Pantophthalmidae                  |
| 537.P4  | Perisclidae                       |
| 537.P42 | Petauristidae                     |
| 537.P44 | Phasiidae                         |

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

## Systematic divisions. By family

## Other families, A-Z -- Continued

- 537.P46 Phoridae (Humpbacked flies)  
 537.P49 Phytalmiidae  
 537.P56 Piophilidae (Skipperflies)  
 537.P57 Pipunculidae (Dorylaidae; bigheadedflies)  
 537.P63 Platypezidae (Clythiidae)  
 537.P65 Platystomatidae  
 537.P83 Psilidae  
 537.P85 Psychodidae (Mothflies)  
 537.P87 Pterocallidae  
 537.P89 Ptychopteridae (Liriopeidae)  
 537.P97 Pyrgotidae  
 537.R4 Rhagionidae (Snipeflies)  
 537.R457 Rhinophoridae  
 537.R458 Rhinoteridae  
 537.R46 Rhopalomeridae  
 537.R5 Richardiidae  
 537.S25 Sarcophagidae (Metopiidae; fleshflies)  
 537.S32 Scatopsidae  
 537.S34 Scenopinidae (Omphralidae)  
 537.S35 Sciadoceridae  
 537.S357 Sciaridae (Lycoriidae; fungus gnats)  
 537.S365 Sciomyzidae  
 537.S367 Sciophilidae  
 537.S4 Sepsidae  
 537.S54 Silvicolidae  
 537.S55 Simuliidae (Melusinidae; blackflies)  
 537.S6 Solvidae  
 537.S7 Sphaeroceridae  
 537.S84 Stratiomyiidae (Soldierflies)  
 537.S86 Streblidae  
 537.S88 Synneuridae  
 537.S9 Syrphidae (Flowerflies)  
 537.T25 Tabanidae (Deerflies)  
 537.T28 Tachinidae (Larvaevoridae)  
 537.T3 Tachiniscidae  
 537.T35 Tanyderidae  
 537.T357 Tanypezidae  
 537.T42 Tephritidae  
 537.T447 Termitoxeniidae  
 537.T448 Tethinidae  
 537.T45 Thaumaleidae  
 537.T458 Thaumatoxenidae  
 537.T47 Therevidae  
 537.T49 Thyreophoridae  
 537.T6 Tipulidae (Craneflies)  
 537.T7 Trichoceridae (Winter craneflies)  
 537.T75 Trixoscelidae

## Invertebrates

## Arthropoda

## Insects

## Diptera (Flies)

Systematic divisions. By family

Other families, A-Z -- Continued

Trypetidae, see QL537.T42

Tylidae, see QL537.M43

537.U4

Ulidiidae

537.X9

Xylophagidae (Erinnidae)

538

Anatomy and morphology

538.2

Physiology

## Embioptera (Embiodea; web spinners)

539

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions, see QL539.3.A +

539.15

General works

539.2

North America (United States and Canada)

(Table Q3)

539.22

Mexico, Central America, and West Indies

(Table Q3)

539.23

South America (Table Q3)

539.24

Europe (Table Q3)

539.25

Asia (Table Q3)

539.26

Africa (Table Q3)

539.27

Australasia and Indo-Pacific islands

(Table Q3)

539.28

Polar regions

539.29

Tropics

539.3.A-Z

Systematic divisions. By family, A-Z

539.3.A5

Anisembiidae

539.3.C4

Clothodidae

539.3.E4

Embiidae

539.3.N6

Notoligotomidae

539.3.O44

Oligembiidae

539.3.O46

Oligotomidae

539.3.T4

Teratembiiidae

539.4

Anatomy and morphology

539.42

Physiology

## Mallophaga (Chewing lice)

540

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions, see QL540.3.A +

540.15

General works

540.2

North America (United States and Canada)

(Table Q3)

540.22

Mexico, Central America, and West Indies

(Table Q3)

540.23

South America (Table Q3)

540.24

Europe (Table Q3)

540.25

Asia (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Mallophaga (Chewing lice)

## Geographical distribution -- Continued

540.26

Africa (Table Q3)

540.27

Australasia and Indo-Pacific islands  
(Table Q3)

540.28

Polar regions

540.29

Tropics

540.3.A-Z

Systematic divisions. By family, A-Z

540.3.B6

Boopiiidae

540.3.D3

Dasyonygidae

540.3.G9

Gyropidae

540.3.H4

Heptapsogastridae

540.3.L3

Laemobothridae

540.3.M4

Menoponidae

540.3.N4

Nesiotinidae

540.3.P4

Phlopterae

540.3.R5

Ricinidae

540.3.T7

Trichodectidae

540.3.T72

Trichophlopterae

540.3.T74

Trimenoponidae

540.4

Anatomy and morphology

540.42

Physiology

## Lepidoptera (Butterflies; moths)

541

Periodicals, societies, congresses, serial  
collections, yearbooks

541.5

Dictionaries and encyclopedias

542

General works, treatises, and textbooks

543

Pictorial works and atlases

544

Popular works

544.2

Juvenile works

544.6

Butterfly attracting

Including butterfly gardens and gardening

545

Classification

545.2

Catalogs and collections

Geographical distribution

For geographical distribution of systematic  
divisions, see QL561.A +

546

General works

North America

548

General works

United States

549

General works

551.A-Z

By region or state, A-Z

552

Canada

553

Mexico, Central America, and West Indies  
(Table Q3)

554

South America (Table Q3)

555

Europe (Table Q3)

556

Asia (Table Q3)

557

Africa (Table Q3)

## Invertebrates

## Arthropoda

## Insects

## Lepidoptera (Butterflies; moths)

## Geographical distribution -- Continued

- 558 Australia  
 558.5 New Zealand  
 559 Pacific islands (Table Q3)  
 560 Arctic regions  
 560.5 Antarctica  
 560.6 Tropics  
 561.A-Z Systematic divisions. By family, A-Z  
 561.A25 Acraeidae  
 561.A254 Acrolepiidae  
 561.A256 Acrolophidae  
 561.A3 Adelidae  
 Aegeriidae, see QL561.S47  
 561.A4 Agaristidae  
 561.A46 Agonoxenidae  
 561.A48 Alucitidae  
 561.A5 Amathusiidae  
 561.A57 Amphitheridae  
 Amydriidae, see QL561.T55  
 561.A65 Anomologidae  
 561.A67 Anthelidae  
 561.A7 Apoprogonidae  
 561.A8 Arctiidae (Tiger moths)  
 561.A84 Argyresthiidae  
 561.A88 Ashinagidae  
 561.A93 Axiidae  
 561.B4 Blastobasidae  
 561.B6 Bombycidae (Silkworm moths)  
 561.B68 Brachodidae  
 561.B7 Brahmaeidae  
 561.C24 Callidulidae  
 561.C3 Carposinidae  
 561.C35 Castniidae  
 561.C4 Cecidosetidae  
 561.C42 Cercophanidae  
 561.C44 Charideidae  
 561.C46 Chlidanotidae  
 561.C47 Choreutidae  
 561.C48 Chrysopolomidae  
 561.C5 Citheroniidae (Royal moths)  
 561.C57 Cochylidae  
 561.C58 Coleophoridae (Casebearer moths)  
 561.C59 Cosmopterigidae  
 561.C6 Cossidae (Carpenterworm moths)  
 Crambidae, see QL561.P9  
 561.C8 Ctenuchidae  
 561.C9 Cyclotornidae  
 561.D3 Danaidae (Milkweed butterflies)  
 561.D5 Dipotidae

## Invertebrates

## Arthropoda

## Insects

## Lepidoptera (Butterflies; moths)

## Systematic divisions.

## By family, A-Z -- Continued

|          |  |
|----------|--|
| 561.D6   | Douglasiidae                           |
| 561.D7   | Drepanidae                             |
| 561.E4   | Elachistidae                           |
| 561.E5   | Endromidae                             |
| 561.E74  | Epermeniidae                           |
| 561.E75  | Epicopeiidae                           |
| 561.E754 | Epimarptidae                           |
| 561.E757 | Epipaschiidae                          |
| 561.E758 | Epiplemidae                            |
| 561.E759 | Epipyropidae                           |
| 561.E8   | Eriocraniidae                          |
| 561.E85  | Ethmiidae                              |
| 561.E9   | Eucleidae                              |
| 561.E94  | Eupterotidae                           |
| 561.G3   | Galleriidae (Wax moths)                |
| 561.G4   | Gelechiidae                            |
| 561.G6   | Geometridae                            |
| 561.G65  | Glyphipterygidae                       |
| 561.G7   | Gracillariidae (Leafblotch miners)     |
| 561.H42  | Heliconiidae                           |
| 561.H44  | Heliodinidae                           |
| 561.H448 | Heliozelidae (Shield bearers)          |
| 561.H47  | Hepialidae                             |
| 561.H5   | Hesperiidae (Skippers)                 |
| 561.H53  | Heterogynidae                          |
| 561.H9   | Hyblaeidae                             |
| 561.H97  | Hyposmocomidae                         |
| 561.I45  | Immidae                                |
| 561.I5   | Incurvariidae                          |
| 561.L3   | Lasiocampidae (Tent-caterpillar moths) |
| 561.L4   | Lemoniidae                             |
| 561.L5   | Libytheidae                            |
| 561.L54  | Limacodidae (Slug-caterpillar moths)   |
|          | Lithosiidae, see QL561.A8              |
| 561.L8   | Lycaenidae                             |
| 561.L9   | Lymantriidae (Tussock moths)           |
| 561.L95  | Lyonetiidae                            |
| 561.M4   | Megalopygidae (Flannel moths)          |
| 561.M42  | Megathymidae (Skippers)                |
| 561.M44  | Metachandidae                          |
| 561.M48  | Micropterygidae                        |
| 561.M5   | Mimallonidae                           |
| 561.M55  | Mnesarchaeidae                         |
| 561.M6   | Morphidae                              |
| 561.N38  | Neopseustidae                          |
| 561.N4   | Nepticulidae                           |
| 561.N7   | Noctuidae (Owlet moths; underwings)    |

## Invertebrates

## Arthropoda

## Insects

## Lepidoptera (Butterflies; moths)

## Systematic divisions.

## By family, A-Z -- Continued

|         |  |
|---------|--|
| 561.N74 | Nolidae                                |
| 561.N8  | Notodontidae                           |
| 561.N87 | Nyctemeridae                           |
| 561.N9  | Nymphalidae (Brushfooted butterflies)  |
| 561.O26 | Ochsenheimeriidae                      |
| 561.O43 | Oecophoridae                           |
|         | Oinophilidae, see QL561.T55            |
| 561.O6  | Olethreutidae                          |
| 561.O7  | Opostegidae                            |
|         | Orenodidae, see QL561.A48              |
| 561.O9  | Oxychirotidae                          |
| 561.O93 | Oxytenididae                           |
| 561.P17 | Palaeosetidae                          |
| 561.P18 | Palaephatidae                          |
| 561.P2  | Papilionidae (Swallowtail butterflies) |
|         | Phaloniidae, see QL561.C57             |
|         | Phycitidae, see QL561.P9               |
| 561.P48 | Phyllocnistidae                        |
| 561.P5  | Pieridae                               |
|         | Plutellidae, see QL561.Y7              |
| 561.P57 | Prodoxidae (Yucca moths)               |
| 561.P58 | Prototheoridae                         |
| 561.P6  | Psychidae (Bagworm moths)              |
| 561.P8  | Pterophoridae (Plume moths)            |
| 561.P85 | Pterothysanidae                        |
| 561.P9  | Pyralidae                              |
| 561.P96 | Pyromorphidae                          |
| 561.R3  | Ratardidae                             |
| 561.R53 | Ridiaschinidae                         |
| 561.R56 | Riodinidae                             |
| 561.S2  | Saturniidae (Giant silkworm moths)     |
| 561.S3  | Satyridae                              |
| 561.S35 | Scythridae                             |
| 561.S44 | Sematuridae                            |
| 561.S47 | Sesiidae (Clearwing moths)             |
|         | Setomorphidae, see QL561.T55           |
| 561.S7  | Sphingidae (Sphinx moths)              |
| 561.S8  | Stenomidae                             |
| 561.S87 | Strepsimanidae                         |
| 561.T46 | Thyatiridae                            |
| 561.T48 | Thyrididae                             |
| 561.T55 | Tineidae (Clothes moths)               |
| 561.T56 | Tineodidae                             |
| 561.T58 | Tischeriidae                           |
| 561.T8  | Tortricidae (Leaf-roller moths)        |
| 561.U7  | Uraniidae                              |
| 561.X9  | Xylorictidae                           |



- Invertebrates
  - Arthropoda
    - Insects
      - Lepidoptera (Butterflies; moths)
        - Systematic divisions.
          - By family, A-Z -- Continued
          - 561.Y7 Yponomeutidae (Ermine moths)
          - 561.Z9 Zygaenidae (Leaf-skeletonizer moths)
          - 562 Anatomy and morphology
          - 562.2 Physiology
          - 562.4 Behavior. Social life. Instinct
        - Hymenoptera (Ants; bees; wasps; etc.)
          - Cf. SF521+, Bee culture
          - 563 General works, treatises, and textbooks
          - 564 Pictorial works and atlases
          - 565 Popular works
          - 565.2 Juvenile works
          - 566 Classification
          - 566.2 Catalogs and collections
          - Geographical distribution
            - For geographical distribution of systematic divisions, see QL568.A+
            - 567 General works
            - 567.1 North America (United States and Canada) (Table Q3)
            - 567.2 Mexico, Central America, and West Indies (Table Q3)
            - 567.3 South America (Table Q3)
            - 567.4 Europe (Table Q3)
            - 567.5 Asia (Table Q3)
            - 567.6 Africa (Table Q3)
            - 567.7 Australia
            - 567.75 New Zealand
            - 567.8 Pacific islands (Table Q3)
            - 567.9 Arctic regions
            - 567.95 Antarctica
            - 567.96 Tropics
          - 568.A-Z Systematic divisions. By family, A-Z
            - 568.A17 Acorduleceridae
            - 568.A23 Agaontidae (Fig wasps)
            - 568.A24 Agriotypidae
            - 568.A3 Alienidae
            - 568.A34 Alysiidae
            - 568.A344 Alyssonidae
            - 568.A36 Ampulicidae
            - 568.A38 Anacharitidae
            - 568.A4 Andrenidae
            - 568.A48 Anthoboscidae
            - 568.A53 Anthophoridae
            - 568.A55 Aphelinidae
            - 568.A57 Aphidiidae
            - 568.A6 Apidae (Honeybees, etc.)
            - 568.A7 Apterogynidae

## Invertebrates

## Arthropoda

## Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions.

By family, A-Z -- Continued

|          |                                |
|----------|--------------------------------|
| 568.A77  | Argidae                        |
| 568.A8   | Aspiceridae                    |
| 568.A9   | Aulacidae                      |
| 568.B36  | Belytidae                      |
|          | Bembicidae, see QL568.S7       |
| 568.B4   | Bethylidae                     |
| 568.B5   | Blasticotomidae                |
| 568.B8   | Braconidae                     |
| 568.B83  | Bradynobaenidae                |
| 568.C373 | Cephidae (Stem sawflies)       |
| 568.C375 | Ceraphronidae                  |
| 568.C377 | Cerceridae                     |
| 568.C4   | Chalcididae                    |
| 568.C44  | Charipidae                     |
| 568.C47  | Chrysididae (Cuckoo wasps)     |
| 568.C5   | Cimbicidae                     |
| 568.C55  | Cleonymidae                    |
| 568.C56  | Cleptidae                      |
| 568.C6   | Colletidae                     |
| 568.C7   | Crabronidae                    |
| 568.C9   | Cynipidae (Gall wasps)         |
| 568.D44  | Diapriidae                     |
| 568.D47  | Dimorphidae                    |
| 568.D5   | Diprionidae (Conifer sawflies) |
| 568.D7   | Dryinidae                      |
| 568.E4   | Elasmidae                      |
| 568.E5   | Embolemidae                    |
| 568.E6   | Encyrtidae                     |
| 568.E75  | Eucharididae                   |
| 568.E77  | Eucoilidae                     |
| 568.E8   | Eulophidae                     |
| 568.E84  | Eumenidae                      |
| 568.E845 | Eupelmidae                     |
| 568.E85  | Eurytomidae                    |
| 568.E9   | Evaniidae (Ensign wasps)       |
| 568.F47  | Fideliidae                     |
| 568.F5   | Figitidae                      |
| 568.F7   | Formicidae (Ants)              |
| 568.G3   | Gasteruptionidae               |
| 568.G6   | Gorytidae                      |
| 568.H3   | Halictidae (Sweat bees)        |
| 568.H4   | Heloridae                      |
| 568.I15  | Ibaliidae                      |
| 568.I2   | Ichneumonidae                  |
| 568.L3   | Larridae                       |
| 568.L47  | Leptofoenidae                  |
| 568.L49  | Leucospidae                    |

## Invertebrates

## Arthropoda

## Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions.

By family, A-Z -- Continued

- |          |                                      |
|----------|--------------------------------------|
| 568.L56  | Liopteridae                          |
| (568.M3) | Masaridae                            |
|          | see QL568.V5                         |
| 568.M4   | Megachilidae (Leaf-cutting bees)     |
| 568.M44  | Megalodontidae                       |
| 568.M45  | Megalyridae                          |
| 568.M456 | Meliponidae                          |
| 568.M46  | Melittidae                           |
| 568.M466 | Mellinidae                           |
| 568.M48  | Methocidae                           |
| 568.M55  | Miscogastridae                       |
| 568.M56  | Miscophidae                          |
| 568.M6   | Monomachidae                         |
| 568.M8   | Mutillidae (Velvet ants)             |
| 568.M94  | Mymaridae (Fairyflies)               |
| 568.M944 | Mymarommatidae                       |
| 568.M97  | Myrmosidae                           |
| 568.N9   | Nyssonidae                           |
| 568.O25  | Oberthuerellidae                     |
| 568.O74  | Ormyridae                            |
| 568.O78  | Orussidae (Parasitic wood wasps)     |
|          | Oryssidae, see QL568.O78             |
| 568.O8   | Oxaeidae                             |
| 568.O9   | Oxybelidae                           |
| 568.P3   | Pamphiliidae (Web-spinning sawflies) |
| 568.P43  | Pelecinidae                          |
|          | Pemphredonidae, see QL568.S7         |
| 568.P474 | Pergidae                             |
| 568.P475 | Perilampidae                         |
| 568.P5   | Philanthidae                         |
| 568.P55  | Platygastriidae                      |
| 568.P58  | Plumariidae                          |
| 568.P6   | Pompilidae (Spider wasps)            |
| 568.P9   | Proctotrypidae                       |
| 568.P94  | Pteromalidae                         |
| 568.P945 | Pterostigmatidae                     |
| 568.R4   | Rhopalosomatidae                     |
| 568.R6   | Roproniidae                          |
| 568.S2   | Sapygidae                            |
| 568.S3   | Scelionidae                          |
| 568.S34  | Sclerogibbidae                       |
| 568.S38  | Scoliidae                            |
| 568.S5   | Sierolomorphidae                     |
| 568.S57  | Siricidae (Horntails)                |
| 568.S7   | Sphecidae                            |
| 568.S8   | Stephanidae                          |
| 568.S85  | Stizidae                             |

## Invertebrates

## Arthropoda

## Insects

Hymenoptera (Ants; bees; wasps; etc.)

Systematic divisions.

By family, A-Z -- Continued

568.S96

Syntexidae

568.T3

Tenthredinidae (Sawflies)

568.T34

Tetracampidae

568.T4

Thynnidae

568.T5

Tiphidae

568.T6

Torymidae

568.T7

Trichogrammatidae

568.T74

Trigonalidae

568.T79

Trypoxylidae

568.V3

Vanhorniidae

568.V5

Vespidae (Hornets, etc.)

568.X5

Xiphydriidae (Wood wasps)

568.X7

Xyelidae

569

Anatomy and morphology

569.2

Physiology

569.4

Behavior. Social life. Instinct

Anoplura (Sucking lice)

570

General works, treatises, and textbooks

Geographical distribution

For geographical distribution of systematic divisions, see QL570.3.A +

570.15

General works

570.2

North America (United States and Canada)

(Table Q3)

570.22

Mexico, Central America, and West Indies

(Table Q3)

570.23

South America (Table Q3)

570.24

Europe (Table Q3)

570.25

Asia (Table Q3)

570.26

Africa (Table Q3)

570.27

Australasia and Indo-Pacific islands

(Table Q3)

570.28

Polar regions (Table Q3)

570.29

Tropics (Table Q3)

570.3.A-Z

Systematic divisions. By family, A-Z

570.3.E3

Echinophthiriidae

570.3.H34

Haematomyzidae

570.3.H37

Haematopinidae

570.3.H38

Haematopinoididae

570.3.H64

Hoplopleuridae

570.3.N4

Neolignathidae

570.3.P4

Pediculidae

570.3.P5

Phthiriidae

Coleoptera (Beetles)

571

Periodicals, societies, congresses, serial collections, yearbooks

572

Collected works (nonserial)

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles) -- Continued

- 573 General works, treatises, and textbooks  
 575 Pictorial works and atlases  
 576 Popular works  
 576.2 Juvenile works  
 577 Classification  
 577.2 Catalogs and collections  
 Geographical distribution  
     For geographical distribution of systematic  
     divisions, see QL596.A +
- 578 General works  
 North America
- 581 General works  
 United States
- 583 General works  
 584.A-Z By region or state, A-Z  
 585 Canada
- Latin America
- 585.5 General works  
 586 Mexico  
 587 Central America (Table Q3)  
 588 West Indies (Table Q3)  
 589 South America (Table Q3)  
 591 Europe (Table Q3)  
 592 Asia (Table Q3)  
 593 Africa (Table Q3)  
 594 Australia  
 594.5 New Zealand  
 595 Pacific islands (Table Q3)  
 595.2 Arctic regions  
 595.4 Antarctica  
 595.6 Tropics
- 596.A-Z Systematic divisions. By family, A-Z  
 596.A23 Acanthoceridae  
 596.A27 Aculognathidae  
 596.A3 Aderidae  
 596.A37 Aegialiidae  
 596.A4 Aglycyderidae  
 596.A42 Alleculidae  
 596.A43 Alticideae  
 596.A45 Amphizoidae  
 596.A5 Anobiidae  
 596.A62 Anthicideae (Antlike flower beetles)  
 596.A63 Anthribidae (Fungus weevils)  
 596.A64 Aphodiidae  
 596.A8 Atractoceridae  
 596.A83 Attelabidae  
 596.B5 Bostrichidae (False powderpost beetles)  
 596.B54 Brachypteridae  
 596.B58 Brachyspectridae

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

## Systematic divisions.

## By family, A-Z -- Continued

|          |                                    |
|----------|------------------------------------|
| 596.B6   | Brathinidae                        |
| 596.B65  | Brentidae                          |
| 596.B7   | Bruchidae (Seed beetles)           |
| 596.B8   | Buprestidae (Metallic wood borers) |
| 596.B97  | Byrrhidae                          |
| 596.B98  | Byturidae (Fruitworm beetles)      |
| 596.C15  | Cantharidae (Soldier beetles)      |
| 596.C2   | Carabidae (Ground beetles)         |
|          | Cassididae, see QL596.C5           |
| 596.C28  | Catopochrotidae                    |
| 596.C3   | Cebrionidae                        |
| 596.C37  | Cephaloidea                        |
| 596.C4   | Cerambycidae (Long-horned beetles) |
| 596.C415 | Ceratocanthidae                    |
| 596.C42  | Cerophytidae                       |
| 596.C43  | Cetoniidae                         |
| 596.C45  | Chapuisiidae                       |
| 596.C46  | Chelonariidae                      |
| 596.C48  | Chlamisidae                        |
| 596.C5   | Chrysomelidae (Leaf beetles)       |
| 596.C56  | Cincindelidae (Tiger beetles)      |
| 596.C6   | Ciidae                             |
| 596.C613 | Cistelidae                         |
| 596.C617 | Clambidae                          |
| 596.C618 | Clavigeridae                       |
| 596.C62  | Cleridae (Checkered beetles)       |
| 596.C64  | Clytridae                          |
| 596.C65  | Coccinellidae (Lady beetles)       |
| 596.C66  | Colydiidae                         |
| 596.C667 | Corylophidae                       |
| 596.C67  | Corynetidae                        |
| 596.C68  | Cossyphodidae                      |
| 596.C7   | Crioceridae                        |
| 596.C77  | Cryptocephalidae                   |
| 596.C78  | Cryptophagidae                     |
| 596.C8   | Cucujidae (Flat-bark beetles)      |
| 596.C85  | Cupidae                            |
| 596.C9   | Curculionidae (Snout beetles)      |
| 596.C93  | Cyathoceridae                      |
| 596.C933 | Cybocephalidae                     |
| 596.C94  | Cyladidae                          |
| 596.D37  | Dascyllidae                        |
| 596.D375 | Dasytidae                          |
| 596.D4   | Dermestidae                        |
| 596.D42  | Derodontidae                       |
| 596.D57  | Diphyllidae                        |
| 596.D58  | Discolomidae                       |

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

## Systematic divisions.

## By family, A-Z -- Continued

|         |   |
|---------|---|
| 596.D6  | Donaciidae                              |
| 596.D67 | Drilidae                                |
| 596.D7  | Dryopidae                               |
| 596.D85 | Dynastidae                              |
| 596.D9  | Dytiscidae (Predaceous diving beetles)  |
| 596.E3  | Ectrephidae                             |
| 596.E38 | Elacatidae                              |
| 596.E4  | Elateridae (Click beetles)              |
| 596.E45 | Elmidae                                 |
| 596.E5  | Endomychidae                            |
| 596.E7  | Erotylidae                              |
| 596.E76 | Euchiridae                              |
| 596.E77 | Eucinetidae                             |
| 596.E8  | Eucnemidae                              |
| 596.E84 | Euglenidae                              |
| 596.E85 | Eumolpidae                              |
| 596.E87 | Eurystethidae                           |
| 596.G3  | Galerucidae                             |
| 596.G47 | Georyssidae                             |
| 596.G48 | Geotrupidae                             |
| 596.G5  | Glaphyridae                             |
| 596.G6  | Gnostidae                               |
| 596.G8  | Gyrinidae (Whirligig beetles)           |
| 596.H2  | Haliplidae                              |
| 596.H38 | Helodidae                               |
| 596.H4  | Helotidae                               |
| 596.H43 | Hemipeplidae                            |
| 596.H45 | Heteroceridae                           |
| 596.H48 | Hispidae                                |
| 596.H5  | Histeridae                              |
| 596.H78 | Hybosoridae                             |
| 596.H79 | Hydraenidae                             |
| 596.H8  | Hydrophilidae (Water scavenger beetles) |
| 596.H85 | Hydroscaphidae                          |
| 596.H9  | Hygrobiidae                             |
| 596.H95 | Hypocephalidae                          |
| 596.I7  | Ipidae                                  |
| 596.J3  | Jacobsoniidae                           |
| 596.L23 | Lagriidae                               |
| 596.L25 | Lamiidae                                |
| 596.L27 | Lamprosomatidae                         |
| 596.L28 | Lampyridae (Fireflies)                  |
| 596.L29 | Languriidae                             |
| 596.L3  | Lathridiidae                            |
| 596.L35 | Leiodidae                               |
| 596.L4  | Leptinidae                              |
| 596.L43 | Leptodiridae                            |

## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

## Systematic divisions.

## By family, A-Z -- Continued

- |         |                                       |
|---------|---------------------------------------|
| 596.L55 | Limnichidae                           |
| 596.L58 | Limulodidae                           |
| 596.L8  | Lucanidae (Stag beetles)              |
| 596.L9  | Lycidae (Netwinged beetles)           |
| 596.L92 | Lyctidae (Powderpost beetles)         |
| 596.L94 | Lyxmexylidae (Timber beetles)         |
| 596.M2  | Malachiidae                           |
| 596.M3  | Megalopodidae                         |
| 596.M34 | Megascelidae                          |
|         | Melasidae, see QL596.E8               |
| 596.M38 | Meloidae (Blister beetles)            |
| 596.M4  | Melolonthidae (Cockchafers)           |
| 596.M43 | Melyridae                             |
| 596.M47 | Micromalthidae                        |
| 596.M5  | Micropeplidae                         |
| 596.M53 | Monoedidae                            |
| 596.M55 | Monommatidae                          |
| 596.M57 | Monotomidae                           |
| 596.M6  | Mordellidae (Tumbling flower beetles) |
| 596.M8  | Murmidiidae                           |
| 596.M9  | Mycetaeidae                           |
| 596.M92 | Mycetophagidae (Hairy fungus beetles) |
| 596.N4  | Nemonychidae                          |
| 596.N54 | Nilionidae                            |
| 596.N57 | Niponiidae                            |
| 596.N58 | Nitidulidae (Sap beetles)             |
| 596.N6  | Nosodendridae                         |
| 596.O25 | Ochodaeidae                           |
| 596.O4  | Oedemeridae                           |
| 596.O67 | Orphnidae                             |
| 596.O7  | Orthoperidae                          |
|         | Ostomatidae, see QL596.T8             |
| 596.P13 | Pachypodidae                          |
| 596.P17 | Parandridae                           |
| 596.P2  | Passalidae                            |
| 596.P25 | Passandridae                          |
| 596.P3  | Pedilidae                             |
| 596.P38 | Petriidae                             |
| 596.P4  | Phaenocephalidae                      |
| 596.P42 | Phaenomeridae                         |
| 596.P46 | Phalacridae (Shining fungus beetles)  |
| 596.P5  | Plastoceridae                         |
| 596.P6  | Platypodidae                          |
| 596.P62 | Platypsyllidae                        |
| 596.P63 | Pleocomidae                           |
| 596.P7  | Prionidae                             |
| 596.P75 | Proterhinidae                         |



## Invertebrates

## Arthropoda

## Insects

## Coleoptera (Beetles)

## Systematic divisions.

## By family, A-Z -- Continued

- 596.P8 Pselaphidae  
 596.P815 Psephenidae  
 596.P83 Ptiliidae  
 596.P85 Ptinidae (Spider beetles)  
 596.P96 Pyrochroidae  
 596.P98 Phthidae  
 596.R4 Rhipiceridae  
 596.R485 Rhipiphoridae  
 596.R5 Rhizophagidae  
 596.R57 Rhysodidae  
 596.R8 Rutelidae  
 596.S23 Sagridae  
 596.S28 Scaphidiidae  
 596.S3 Scarabaeidae (Scarabs)  
 596.S35 Scolytidae (Bark beetles)  
 596.S353 Scolytoplatypodidae  
 596.S38 Scraptiidae  
 596.S4 Scydmaenidae  
 596.S45 Serropalpidae  
 596.S49 Silvanidae  
 596.S5 Silphidae (Carrion beetles)  
 596.S53 Sinodendridae  
 596.S6 Smicripidae  
 596.S65 Sphaeriidae  
 596.S66 Sphaeritidae  
 596.S7 Sphindidae  
 596.S75 Staphylinidae (Rove beetles)  
 596.S9 Synteliidae  
 596.T16 Telegeusidae  
 596.T2 Tenebrionidae (Darkling beetles)  
 596.T35 Thorictidae  
 596.T4 Throscidae  
 596.T7 Trichiidae  
 596.T75 Trichopterygidae, see QL596.P83  
 596.T78 Trictenotomidae  
 596.T8 Trogidae  
 596.T8 Trogidae  
 596.U75 Urodontidae  
 597 Anatomy and morphology  
 597.2 Physiology  
 598 Thysanoptera (Thrips)  
 General works, treatises, and textbooks  
 Geographical distribution  
 For geographical distribution of systematic  
 divisions, see QL598.3.A +  
 598.15 General works

## Invertebrates

## Arthropoda

## Insects

## Thysanoptera (Thrips)

## Geographical distribution -- Continued

- 598.2 North America (United States and Canada)  
(Table Q3)
- 598.22 Mexico, Central America, and West Indies  
(Table Q3)
- 598.23 South America (Table Q3)
- 598.24 Europe (Table Q3)
- 598.25 Asia (Table Q3)
- 598.26 Africa (Table Q3)
- 598.27 Australasia and Indo-Pacific islands  
(Table Q3)
- 598.28 Polar regions
- 598.29 Tropics
- 598.3.A-Z Systematic divisions. By family, A-Z
- 598.3.A4 Aeolothripidae
- 598.3.C4 Ceratothripidae
- 598.3.C5 Chirothripoididae
- 598.3.E3 Ecacanthothripidae
- 598.3.E8 Eupatithripidae
- 598.3.F7 Franklinothripidae
- 598.3.H4 Heterothripidae
- 598.3.H9 Hystrichothripidae
- 598.3.I3 Idolothripidae
- 598.3.M44 Megathripidae
- 598.3.M45 Melanothripidae
- 598.3.M47 Merothripidae
- 598.3.M9 Mymarothripidae
- 598.3.O7 Orothripidae
- 598.3.P3 Panchaetothripidae
- 598.3.P45 Phlaeothripidae
- 598.3.P5 Phloeothripidae
- 598.3.P9 Pygothripidae
- 598.3.T4 Thripidae
- 598.3.U7 Urothripidae
- 598.4 Anatomy and morphology
- 598.42 Physiology
- 598.5 Mecoptera (Scorpionflies)
- General works, treatises, and textbooks
- Geographical distribution
- For geographical distribution of systematic  
divisions, see QL598.7.A +
- 598.52 General works
- 598.6 North America (United States and Canada)  
(Table Q3)
- 598.62 Mexico, Central America, and West Indies  
(Table Q3)
- 598.63 South America (Table Q3)
- 598.64 Europe (Table Q3)
- 598.65 Asia (Table Q3)

- Invertebrates
  - Arthropoda
    - Insects
      - Mecoptera (Scorpionflies)
        - Geographical distribution -- Continued
          - 598.66 Africa (Table Q3)
          - 598.67 Australasia and Indo-Pacific islands (Table Q3)
          - 598.68 Polar regions
          - 598.69 Tropics
          - 598.7.A-Z Systematic divisions. By family, A-Z
            - 598.7.B5 Bittacidae
            - 598.7.B6 Boreidae
            - 598.7.M4 Meropeidae
            - 598.7.N6 Notiothaumidae
            - 598.7.P3 Panorpidae
          - 598.8 Anatomy and morphology
          - 598.82 Physiology
        - Strepsiptera (Twisted-winged parasites)
          - 599 General works, treatises, and textbooks
          - Geographical distribution
            - For geographical distribution of systematic divisions, see QL599.3.A +
          - 599.15 General works
          - 599.2 North America (United States and Canada) (Table Q3)
          - 599.22 Mexico, Central America, and West Indies (Table Q3)
          - 599.23 South America (Table Q3)
          - 599.24 Europe (Table Q3)
          - 599.25 Asia (Table Q3)
          - 599.26 Africa (Table Q3)
          - 599.27 Australasia and Indo-Pacific islands (Table Q3)
          - 599.28 Polar regions
          - 599.29 Tropics
          - 599.3.A-Z Systematic divisions. By family, A-Z
            - 599.3.C32 Callipharixenidae
            - 599.3.E4 Elenchidae
            - 599.3.H3 Halictophagidae
            - 599.3.M45 Mengeidae
            - 599.3.M46 Mengerillidae
            - 599.3.M9 Myrmecolacidae
            - 599.3.S85 Stichtotrematidae
            - 599.3.S89 Stylopidae
          - 599.4 Anatomy and morphology
          - 599.42 Physiology
        - Siphonaptera (Fleas)
          - 599.5 General works, treatises, and textbooks
          - Geographical distribution
            - For geographical distribution of systematic divisions, see QL599.7.A +
          - 599.52 General works

- Invertebrates
  - Arthropoda
    - Insects
      - Siphonaptera (Fleas)
        - Geographical distribution -- Continued
          - 599.6 North America (United States and Canada) (Table Q3)
          - 599.62 Mexico, Central America, and West Indies (Table Q3)
          - 599.63 South America (Table Q3)
          - 599.64 Europe (Table Q3)
          - 599.65 Asia (Table Q3)
          - 599.66 Africa (Table Q3)
          - 599.67 Australasia and Indo-Pacific islands (Table Q3)
          - 599.68 Polar regions
          - 599.69 Tropics
          - 599.7.A-Z Systematic divisions. By family, A-Z
          - 599.7.C47 Ceratophyllidae
          - 599.7.D6 Dolichopsyllidae
          - 599.7.H4 Hectopsyllidae
          - 599.7.H9 Hystrichopsyllidae
          - 599.7.I3 Ischnopsyllidae
          - 599.7.P8 Pulicidae
          - 599.7.S8 Stephanocircidae
          - 599.7.T8 Tungidae
          - 599.8 Anatomy and morphology
          - 599.82 Physiology
- Chordates. Vertebrates
  - For anatomy, see QL801 +
  - For behavior, see QL750 +
  - For physiology, see QP1 +
  - 605.A1 Periodicals, societies, congresses, serial collections, yearbooks
  - 605.A2 Collected works (nonserial)
  - 605.A3-Z General works, treatises, and textbooks
  - 605.2 Popular works
  - 605.3 Juvenile works
  - 605.4 Dictionaries and encyclopedias
  - Rare and endangered species, see QL81.5 +
  - Geographical distribution
    - For geographical distribution of systematic divisions, see the division, e.g. QL619 +,
    - Fishes
      - 606.5 General works
      - 606.52 North America (United States and Canada) (Table Q3)
      - 606.53 Mexico, Central America, and West Indies (Table Q3)
      - 606.54 South America (Table Q3)
      - 606.55 Europe (Table Q3)
      - 606.56 Asia (Table Q3)
      - 606.57 Africa (Table Q3)

## Chordates. Vertebrates

## Geographical distribution -- Continued

- 606.58 Australasia and Indo-Pacific islands (Table Q3)  
 Arctic regions  
 606.59 General works  
 606.592 Bering Land Bridge Region. Beringia  
 606.594 Greenland  
 606.597 Antarctica  
 606.6 Tropics  
 607 Classification  
 607.2 Catalogs and collections  
 607.5 Evolution (General)  
 607.9 Collection and preservation
- Protochordata  
 610 General works  
 611 Cephalochordata  
 612 Hemichordata  
 613 Urochordata (Tunicata)
- Fishes  
 Cf. SH1+, Fish culture, fisheries, angling  
 614 Periodicals, societies, congresses, serial collections, yearbooks  
 614.5 Collected works (nonserial)  
 614.7 Dictionaries and encyclopedias  
 History of ichthyology  
 614.8 General works  
 614.83.A-Z By region or country, A-Z  
 Biography of ichthyologists, see QL26+  
 614.9 Directories  
 615 General works, treatises, and textbooks  
 616 Pictorial works and atlases  
 617 Popular works  
 617.2 Juvenile works  
 Rare and endangered species  
 617.7 General works  
 617.73.A-Z By region or country, A-Z  
 618 Classification. Nomenclature  
 618.15 Catalogs and collections  
 618.2 Evolution. Speciation  
 618.3 Population dynamics  
 Study and teaching. Research  
 618.5 General works  
 618.55 Fish watching  
 For fish watching in individual regions or countries, see QL620-QL637.5  
 618.6 Collection and preservation. Fish mounting  
 Cf. SH338+, Fisheries museums and exhibitions  
 618.7 Poisonous fishes. Dangerous fishes  
 Cf. QL638.93, Shark attacks  
 Geographical distribution  
 For geographical distribution of systematic divisions, see QL637.9+  
 619 General works

## Chordates. Vertebrates

## Fishes

## Geographical distribution -- Continued

## Physiographic divisions

## Marine fishes

For marine fishes of a particular coast, see  
QL625+

- 620 General works  
620.2 Circumpolar  
Cf. QL637, Arctic Ocean  
Cf. QL637.2, Antarctic Ocean  
620.4 Circumtropical  
Atlantic Ocean  
Cf. QL632.5, Atlantic Ocean islands  
621 General works  
621.2 North Atlantic  
General works  
Eastern North Atlantic  
Including the coast of Europe  
621.3 General works  
621.32 Greenland Sea  
621.34 Norwegian Sea  
621.35 Baltic Sea  
Including the Gulf of Bothnia  
621.36 Kattegat. Skagerrak  
621.37 North Sea  
621.38 English Channel  
621.39 Irish Sea  
621.395 Bay of Biscay  
Mediterranean Sea  
621.4 General works  
621.42 Adriatic Sea  
621.44 Aegean Sea  
621.46 Black Sea  
Western North Atlantic  
Including the coast of North America  
621.5 General works  
621.52 Baffin Bay  
621.53 Davis Strait  
621.54 Newfoundland Banks  
621.56 Gulf of Mexico  
621.58 Caribbean Sea  
621.6 Central Atlantic. Tropical Atlantic  
General works  
621.62 Eastern Central Atlantic  
621.65 Western Central Atlantic  
621.7 South Atlantic  
General works  
Eastern South Atlantic  
Including the coast of Africa  
621.72 General works  
621.75 Gulf of Guinea

## Chordates. Vertebrates

## Fishes

## Geographical distribution

## Physiographic divisions

## Marine fishes

## Atlantic Ocean

## South Atlantic -- Continued

621.77

## Western South Atlantic

## Including the coast of South America

## Indian Ocean

## Cf. QL636.7, Indian Ocean islands

622

## General works

## North Indian Ocean

622.2

## General works

## Arabian Sea

622.3

## General works

622.32

## Persian Gulf

622.34

## Red Sea

622.36

## Gulf of Aden

## Bay of Bengal

622.4

## General works

622.45

## Andaman Sea

## South Indian Ocean

622.5

## General works

622.55

## Mozambique Channel

## Pacific Ocean

## Cf. QL636.5, Pacific islands

623

## General works

## North Pacific

623.2

## General works

623.3

## Bering Sea

## Eastern North Pacific

## Including the coast of North America

623.4

## General works

623.45

## Gulf of Alaska

## Western North Pacific

## Including the coast of Asia

623.5

## General works

623.52

## Okhotsk Sea

623.53

## Japan Sea

623.54

## Yellow Sea

623.55

## East China Sea

623.56

## South China Sea

623.58

## Philippine Sea

623.59

## Tonkin, Gulf of

623.6

## Central Pacific. Tropical Pacific

## South Pacific

623.7

## General works

623.8

## Eastern South Pacific

## Including the coast of South America

## Western South Pacific

## Including Australasia

623.9

## General works

- Chordates. Vertebrates  
 Fishes  
   Geographical distribution  
   Physiographic divisions  
     Marine fishes  
       Pacific Ocean  
       South Pacific  
         Western South Pacific -- Continued  
         Java Sea  
         Coral Sea  
         Tasman Sea  
         Indo-Pacific region  
         Arctic Ocean, see QL637  
         Antarctic Ocean, see QL637.2  
     Freshwater fishes  
       Class here general works only  
       For fishes of a particular area, see QL625 +  
     Topographic divisions  
       North America  
       General works  
       Great Lakes  
       Canada  
       General works  
       By region or province, A-Z  
       United States  
       General works  
       By region or state, A-Z  
       Cf. QL636.5, Hawaii  
       Mexico  
       Central America (Table Q3)  
       West Indies (Table Q3)  
       South America (Table Q3)  
       Atlantic Ocean islands (Table Q3)  
       Europe (Table Q3)  
       Asia (Table Q3)  
       Africa (Table Q3)  
       Australia  
       New Zealand  
       Pacific islands (Table Q3)  
       Indian Ocean islands (Table Q3)  
       Arctic regions  
       Including the Arctic Ocean  
       Antarctica  
       Including the Antarctic Ocean  
       Tropics  
     Systematic divisions
- 623.92  
 623.94  
 623.96  
 623.98  
 624  
 625  
 625.5  
 626  
 626.5.A-Z  
 627  
 628.A-Z  
 629  
 630  
 631  
 632  
 632.5  
 633  
 634  
 635  
 636  
 636.2  
 636.5  
 636.7  
 637  
 637.2  
 637.5



## Chordates. Vertebrates

## Fishes

## Systematic divisions -- Continued

- 637.9.A-Z Osteichthys (Bony fishes). By order, A-Z  
 Class species, genera, and families in QL638  
 Class single-family orders with family in QL638  
 For general works and works on higher groups of bony fishes, except dipnoid and ganoid fishes, see QL615  
 For general works on dipnoid and ganoid fishes, see QL638.3
- 637.9.A3 Acipenseriformes
- 637.9.A5 Amiiiformes, see QL638.A37
- 637.9.A8 Anguilliformes
- 637.9.A93 Atheriniformes
- 637.9.B36 Aulopiformes
- 637.9.B4 Batrachoidiformes, see QL638.B3
- 637.9.C35 Beloniformes
- 637.9.C38 Beryciformes
- 637.9.C4 Ceratodontiformes, see QL638.C356
- 637.9.C9 Cetomimiformes
- 637.9.D3 Channiformes, see QL638.C486
- 637.9.D5 Characiformes
- 637.9.E4 Clupeiformes
- 637.9.G3 Coelacanthiformes, see QL638.L26
- 637.9.G37 Ctenothrissiformes, see QL638.M13
- 637.9.G6 Cypriniformes
- 637.9.G94 Cyprinodontiformes, see QL637.9.C9
- 637.9.L3 Dactylopteriformes
- 637.9.L6 Dipteriformes
- 637.9.M6 Elopiformes
- 637.9.M93 Gadiformes
- 637.9.N6 Gasterosteiformes
- 637.9.O8 Gobiesociformes, see QL638.G6
- 637.9.P46 Gonorynchiformes
- 637.9.P47 Gymnotiformes
- 637.9.P5 Lampridiformes
- 637.9.S3 Lepisosteiformes, see QL638.L4
- 637.9.S35 Lophiiformes
- 637.9.S5 Mormyriiformes
- 637.9.S9 Myctophiformes
- 637.9.T4 Notacanthiformes
- Osteoglossiformes
- Pegasiformes, see QL638.P32
- Perciformes
- Percopsiformes
- Pleuronectiformes
- Polypteriformes, see QL638.P76
- Salmoniformes
- Scorpaeniformes
- Siluriformes
- Synbranchiformes
- Tetraodontiformes

## Chordates. Vertebrates

## Fishes

## Systematic divisions

Osteichthys (Bony fishes). By order, A-Z -- Continued  
Zeiformes

637.9.Z4

638.A-Z

Osteichthys (Bony fishes). By family, A-Z

Class here works on species, genera, and families

638.A15

Acanthoclinidae

638.A2

Acanthuridae (Surgeonfishes)

638.A25

Acipenseridae (Sturgeons)

638.A27

Acropomatidae

638.A29

Adrianichthyidae

638.A3

Ageneiosidae

638.A316

Agonidae (Poachers)

638.A32

Akysidae

Alabetidae, see QL638.G6

638.A335

Albulidae (Bonefishes)

638.A34

Alepisauridae (Lancetfishes)

638.A35

Alepocephalidae

638.A36

Amarsipidae

638.A364

Amblycipitidae

638.A366

Amblyopsidae (Cavefishes)

638.A37

Amiidae (Bowfins)

638.A4

Ammodytidae (Sand lances)

638.A44

Amphiliidae

638.A47

Amphipnoidae

638.A5

Anabantidae

638.A53

Anablepidae

638.A54

Anarhichadidae (Wolffishes)

638.A55

Anguillidae (Freshwater eels)

Anisochromidae, see QL638.P84

638.A556

Anomalopidae

638.A56

Anoplogasteridae

638.A567

Anoplopomatidae (Sablefishes)

638.A568

Anostomidae

638.A57

Anotopteridae (Daggertoths)

638.A577

Antennariidae (Frogfishes)

638.A6

Aoteidae

638.A63

Aphredoderidae (Pirate perches)

638.A64

Aploactinidae

638.A642

Aplocheilidae

638.A643

Aplochitonidae

638.A65

Aplodactylidae

638.A7

Apogonidae (Cardinalfishes)

638.A73

Apteronotidae

Arapaimidae, see QL638.O88

638.A75

Argentinidae

638.A755

Ariidae (Sea catfishes)

638.A77

Arripidae

638.A78

Aspredinidae

638.A785

Astroblepidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony

fishes). By family, A-Z -- Continued

- 638.A788 Astronesthidae
- 638.A79 Ateleopodidae
- 638.A8 Atherinidae (Silversides)
- 638.A83 Auchenipteridae
- 638.A84 Aulopodidae
- 638.A844 Aulorhynchidae
- 638.A848 Aulostomidae (Trumpetfishes)
- 638.B13 Bagridae
- 638.B15 Balistidae (Triggerfishes; filefishes)
- 638.B153 Balitoridae (Hillstream loaches)
- 638.B155 Banjosidae
- 638.B17 Barbourisiidae
- 638.B18 Bathyclupeidae
- 638.B2 Bathydraconidae
- 638.B23 Bathyloconidae
- 638.B25 Bathylagidae (Deepsea smelts)
- 638.B26 Bathymasteridae (Ronquils)
- 638.B27 Bathypteroidae
- 638.B3 Batrachoididae (Toadfishes)
- 638.B34 Belonidae (Needlefishes)
- 638.B347 Belontiidae
- 638.B4 Berycidae
- 638.B6 Blenniidae (Combtooth blennies)
- 638.B65 Bothidae (Lefteye flounders)
- 638.B67 Bovichthyidae
- 638.B7 Bracionichthyidae
- 638.B8 Bramidae (Pomfrets)
- 638.B83 Branchiostegidae (Tilefishes)
- 638.B85 Bregmacerotidae (Codlets)
- 638.C12 Caesionidae
- 638.C14 Callichthyidae
- 638.C15 Callionymidae (Dragonets)
- 638.C2 Caproidae (Boarfishes)
- 638.C23 Caracanthidae
- 638.C25 Carangidae (Jacks; pompanos)
- 638.C26 Carapidae (Pearlfishes)
- 638.C265 Caristiidae
- 638.C27 Catostomidae (Suckers)
- 638.C28 Caulophrynidae
- 638.C3 Centrarchidae (Sunfishes)
- 638.C32 Centriscidae (Snipefishes)
- 638.C326 Centrolophidae
- 638.C33 Centrophrynidae
- 638.C34 Centropomidae (Snooks)
- 638.C347 Cepolidae
- 638.C35 Ceratiidae (Seadevils)
- 638.C356 Ceratodontidae
- 638.C36 Cetomimidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.C37 Cetopsidae  
 638.C385 Chacidae  
 638.C4 Chaenopsidae  
 638.C48 Chaetodontidae (Butterflyfishes)  
 638.C483 Champsodontidae  
 638.C484 Chanidae  
 638.C485 Channicthyidae  
 638.C486 Channidae  
 638.C5 Characidae (Characins; tetras)  
 638.C53 Chaudhuriidae  
 638.C534 Chauliodontidae (Viperfishes)  
 638.C5344 Chaunacidae  
 638.C536 Cheilodactylidae  
 638.C5365 Cheimarrhichthyidae  
 638.C54 Chiasmodontidae  
 638.C544 Chilodontidae  
 638.C547 Chironemidae  
 638.C549 Chlorophthalmidae (Greeneyes)  
 638.C55 Cichlidae (Cichlids)  
 638.C577 Cirrhitidae (Hawkfishes)  
 638.C578 Citharidae  
 638.C5785 Citharinidae  
 638.C6 Clariidae (Airbreathing catfishes)  
 638.C63 Clinidae (Clinids; blennies)  
 638.C64 Clupeidae (Herrings)  
 638.C647 Cobitidae (Loaches)  
 (638.C65) Coelacanthidae  
     see QL638.L26  
 638.C654 Comephoridae  
 638.C655 Congiopodidae  
 638.C66 Congridae (Conger eels)  
 638.C666 Congrogadidae  
 638.C7 Coracinidae  
 638.C795 Coregonidae, see QL638.S2  
 Coryphaenidae (Dolphinfishes)  
 Coryphaenoididae, see QL638.M2  
 638.C8 Cottidae (Sculpins)  
 638.C816 Cottocomephoridae  
 638.C818 Cottunculidae  
 638.C83 Cranoglanididae  
 638.C84 Creediidae  
 638.C88 Ctenoluciidae  
 638.C89 Curimatidae  
 638.C9 Cyclopteridae (Lumpsuckers; snailfishes)  
 638.C914 Cyemidae  
 638.C92 Cynodontidae  
 638.C93 Cynoglossidae (Tonguefishes)  
 638.C94 Cyprinidae (Minnows; carps)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony

fishes). By family, A-Z -- Continued

- 638.C96 Cyprinodontidae (Killifishes)  
 638.D3 Dactylopteridae (Flying gurnards)  
 638.D35 Dactyloscopidae (Sand stargazers)  
 638.D4 Denticipitidae  
 638.D47 Derichthyidae  
 638.D5 Diceratiidae  
 638.D56 Diodontidae (Porcupinefishes)  
 638.D57 Diplomystidae  
 638.D577 Diretmidae  
 638.D58 Distichodontidae  
 638.D6 Doradidae  
 Dummumieriidae, see QL638.C64  
 638.D93 Dysommidae (Arrowtooth eels)  
 638.D95 Dysomminidae  
 638.E2 Echeneidae (Remoras)  
 638.E34 Electrophoridae  
 638.E4 Elopidae (Ladyfishes, etc.)  
 638.E5 Embiotocidae (Surfperches)  
 638.E53 Emmelichthyidae (Bonnetmouths)  
 638.E55 Engraulidae (Anchovies)  
 638.E556 Enoplosidae  
 638.E6 Ehippidae (Spadefishes)  
 638.E65 Erythrinidae  
 638.E7 Esocidae (Pikes)  
 638.E8 Eurypharyngidae  
 638.E83 Eutaeniophoridae  
 638.E87 Evermannellidae  
 638.E9 Exocoetidae (Flying fishes)  
 Fierasferidae, see QL638.C26  
 638.F5 Fistulariidae (Cornetfishes)  
 638.F6 Formionidae  
 638.G2 Gadidae (Codfishes)  
 638.G23 Gadopsidae  
 638.G24 Galaxiidae  
 638.G266 Gasteropelecidae  
 638.G27 Gasterostiedae (Sticklebacks)  
 638.G4 Gempylidae (Snake mackerels)  
 638.G43 Gerridae (Mojarras)  
 638.G45 Gibberichthyidae  
 638.G455 Gigantactinidae  
 638.G5 Giganturidae  
 638.G55 Glaucosomidae  
 638.G6 Gobiesocidae (Clingfishes)  
 638.G7 Gobiidae (Gobies)  
 638.G73 Gobioididae  
 638.G75 Gonorynchidae  
 638.G8 Gonostomatidae (Lightfishes)  
 638.G82 Goodeidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony

fishes). By family, A-Z -- Continued

|           |                                    |
|-----------|------------------------------------|
| 638.G843  | Grammicolepididae                  |
| 638.G844  | Grammidae                          |
| 638.G848  | Grammistidae (Soapfishes)          |
| 638.G85   | Gregoryinidae                      |
| 638.G87   | Gymnarchidae                       |
|           | Gymnodontidae, see QL638.T32       |
| 638.G9    | Gymnotidae                         |
| 638.G95   | Gyrinocheilidae                    |
| 638.H25   | Halosauridae                       |
| 638.H28   | Harpagiferidae                     |
| 638.H3    | Harpodontidae                      |
| 638.H444  | Helogeneidae                       |
| 638.H448  | Helostomatidae                     |
| 638.H45   | Hemiodontidae                      |
| 638.H46   | Hemiramphidae (Halfbeaks)          |
| 638.H47   | Hepsetidae                         |
| 638.H484  | Heterenchelyidae                   |
| 638.H486  | Heteropneustidae                   |
| 638.H49   | Hexagrammidae (Greenlings)         |
| 638.H54   | Himantolophidae (Footballfishes)   |
| 638.H56   | Hiodontidae (Mooneyes)             |
| 638.H64   | Holocentridae (Squirrelfishes)     |
| (638.H66) | Homalopteridae                     |
| 638.H67   | Hoplichthyidae                     |
| 638.H68   | Horaichthyidae                     |
| 638.H93   | Hypophthalmidae                    |
| 638.H935  | Hypoptychidae                      |
| 638.I13   | Icelidae                           |
| 638.I15   | Ichthyboridae                      |
| 638.I23   | Icosteidae (Ragfishes)             |
| 638.I3    | Ictaluridae (Freshwater catfishes) |
| 638.I35   | Idiacanthidae                      |
| 638.I4    | Indostomidae                       |
| 638.I6    | Ipnopidae                          |
| 638.I86   | Isonidae                           |
| 638.I88   | Istiophoridae (Billfishes)         |
| 638.J4    | Jenynsiidae                        |
| 638.K3    | Kasidoridae                        |
| 638.K5    | Kneriidae                          |
| 638.K6    | Korsogasteridae                    |
| 638.K7    | Kraemeriidae                       |
| 638.K8    | Kuhliidae                          |
| 638.K87   | Kurtidae                           |
| 638.K9    | Kyphosidae (Sea chubs)             |
| 638.L115  | Labracoglissidae                   |
| 638.L12   | Labridae (Wrasses)                 |
| 638.L2    | Lacteriidae                        |
| 638.L24   | Lampridae (Opahs)                  |

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony

fishes). By family, A-Z -- Continued

- 638.L26 Latimeriidae  
 638.L28 Latridae  
 638.L3 Lebiasinidae  
 638.L35 Leiognathidae  
 638.L37 Lepidosirenidae  
 638.L4 Lepisosteidae (Gars)  
 638.L47 Leptoscopidae  
 638.L48 Lethrinidae  
 638.L5 Limnichthyidae  
 638.L55 Linophrynidae  
 Liparidae, see QL638.C9  
 638.L57 Lipogenidae  
 638.L6 Lobotidae (Tripletails)  
 638.L75 Lophiidae (Goosefishes)  
 638.L77 Lophotidae (Crestfishes)  
 638.L785 Loricariidae (Armored catfishes)  
 638.L8 Luciocephalidae  
 638.L9 Lutjanidae (Snappers)  
 638.L95 Luvaridae (Louvars)  
 638.M13 Macristiidae  
 638.M16 Macrocephenchelyidae  
 638.M165 Macrorhamphosidae  
 638.M2 Macrouridae (Grenadiers)  
 638.M22 Macrurocyttidae  
 638.M24 Malacosteidae  
 638.M246 Malapteruridae  
 638.M28 Mastacembelidae  
 638.M33 Megalopidae (Tarpon)  
 638.M34 Melamphaeidae  
 638.M35 Melanocetidae  
 Melanostomiatidae, see QL638.M3573  
 638.M3573 Melanostomiidae  
 638.M358 Melanotaeniidae  
 638.M37 Menidae  
 638.M4 Merlucciidae  
 638.M5 Microdesmidae (Wormfishes)  
 Microstomidae, see QL638.B25  
 638.M57 Mirapinnidae  
 638.M6 Mochokidae  
 638.M64 Molidae (Molas)  
 638.M645 Monacanthidae  
 638.M65 Monocentridae  
 638.M653 Monodactylidae  
 638.M654 Monognathidae  
 638.M67 Moridae  
 638.M675 Moringuidae (Spaghetti eels)  
 638.M676 Mormyridae  
 638.M678 Moronidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony

fishes). By family, A-Z -- Continued

- |           |                                |
|-----------|--------------------------------|
| 638.M8    | Mugilidae (Mulletts)           |
| 638.M84   | Mugiloididae                   |
| 638.M85   | Mullidae (Goatfishes)          |
| 638.M87   | Muraenesocidae (Pike congers)  |
| 638.M875  | Muraenidae (Morays)            |
| 638.M876  | Muraenolepididae               |
| 638.M9    | Myctophidae (Lanternfishes)    |
| 638.M97   | Myrocongridae                  |
| 638.N25   | Nandidae                       |
| 638.N3    | Neenchelyidae                  |
| 638.N33   | Nematistiidae                  |
| 638.N34   | Nemichthyidae (Snipe eels)     |
| 638.N347  | Nemipteridae                   |
| 638.N36   | Neoceratiidae                  |
| 638.N38   | Neoscopelidae                  |
| 638.N387  | Neostethidae                   |
| 638.N4    | Nessorhamphidae                |
| 638.N46   | Nettastomatidae                |
| 638.N5    | Nomeidae                       |
| 638.N57   | Normanichthyidae               |
| 638.N58   | Notacanthidae (Spiny eels)     |
| 638.N586  | Notograptidae                  |
| 638.N5867 | Notopteridae                   |
| 638.N5873 | Notosudidae                    |
| 638.N6    | Nototheniidae                  |
|           | Novumbridae, see QL638.U5      |
| 638.O2    | Odacidae                       |
| 638.O3    | Ogcocephalidae (Batfishes)     |
| 638.O4    | Olyridae                       |
| 638.O45   | Omosudidae                     |
| 638.O5    | Oneirodidae                    |
| 638.O633  | Ophichthidae (Snake eels)      |
| 638.O634  | Ophiclinidae                   |
| 638.O637  | Ophidiidae (Cusk eels)         |
| 638.O65   | Opisthognathidae (Jawfishes)   |
| 638.O657  | Opisthoproctidae (Spookfishes) |
| 638.O67   | Oplegnathidae                  |
| 638.O7    | Oreosomatidae                  |
| 638.O78   | Oryziatidae                    |
| 638.O84   | Osmeridae (Smelts)             |
| 638.O87   | Osphronemidae                  |
| 638.O88   | Osteoglossidae                 |
| 638.O887  | Ostraciontidae                 |
| 638.O9    | Owstoniidae                    |
|           | Oxudercidae, see QL638.G7      |
| 638.P254  | Pangasiidae                    |
| 638.P258  | Pantodontidae                  |
| 638.P3    | Paralepididae                  |



## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.P315 Parazenidae  
 638.P316 Parodontidae  
 638.P318 Pataecidae  
 638.P32 Pegasidae  
 638.P34 Pempheridae (Sweepers)  
 638.P35 Pentacerotidae (Armorheads)  
 638.P357 Penatpodidae  
 638.P358 Percichthyidae  
 638.P4 Percidae (Perches; darters)  
 638.P464 Percophididae (Flatheads)  
 638.P468 Percopsidae (Trout-perches)  
 638.P47 Peronedysidae  
 638.P5 Phallostethidae  
 638.P55 Pholidichthyidae  
 638.P56 Pholididae (Gunnels)  
 638.P57 Phractolaemidae  
 638.P6 Pimelodidae  
 638.P62 Platycephalidae  
 638.P63 Platytroctidae  
 638.P64 Plecoglossidae  
 638.P648 Plesiopidae  
 638.P7 Pleuronectidae (Righteye flounders)  
 638.P72 Plotosidae  
 638.P73 Poeciliidae (Livebearers)  
 638.P747 Polymixiidae (Beardfishes)  
 638.P75 Polynemidae (Threadfins)  
 638.P755 Polyodontidae (Paddlefishes)  
 638.P76 Polypteridae  
 638.P77 Pomacentridae (Damsel-fishes)  
 638.P772 Pomadasyidae (Grunts)  
 638.P778 Pomatomidae (Bluefishes)  
 638.P785 Priacanthidae (Bigeyes)  
 638.P786 Prochilodontidae  
 638.P8 Psettodidae  
 638.P84 Pseudochromidae  
 638.P844 Pseudogrammididae  
 638.P855 Pseudoplesiopidae, see QL638.P84  
 638.P88 Psilorhynchidae  
 638.P9 Psychrolutidae  
 638.P9 Ptilichthyidae (Quillfishes)  
 638.P9 Pygidiidae, see QL638.T76  
 638.P97 Pyramodontidae  
 638.R3 Rachycentridae (Cobias)  
 638.R4 Regalecidae (Oarfishes)  
 638.R48 Retropinnidae  
 638.R5 Rhamphichthyidae  
 638.R55 Rhinoprenidae  
 638.R59 Rhyacichthyidae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony

fishes). By family, A-Z -- Continued

- 638.R65 Rondeletiidae  
 638.R68 Rosauridae  
 638.S15 Saccopharyngidae  
 638.S18 Salangidae  
 638.S2 Salmonidae (Trouts; whitefishes)  
 638.S3 Scaridae (Parrotfishes)  
 638.S32 Scatophagidae  
 638.S334 Schilbeidae  
 638.S335 Schindleriidae  
 638.S34 Sciaenidae (Drums)  
 638.S347 Scomberesocidae (Sauries)  
 638.S35 Scombridae (Tuna; mackerel)  
 638.S374 Scopelarchidae (Pearleyes)  
 Scopelosauridae, see QL638.N5873  
 638.S38 Scophthalmidae  
 638.S42 Scorpaenidae (Scorpionfishes)  
 638.S45 Scytalinidae (Graveldivers)  
 638.S47 Searsidae (Tubeshoulders)  
 638.S48 Serranidae (Sea basses)  
 638.S483 Serrasalminidae  
 638.S485 Serrivomeridae  
 638.S5 Siganidae  
 638.S54 Sillaginidae  
 638.S6 Siluridae (Old World catfishes)  
 638.S64 Simenchelyidae  
 638.S68 Sisoridae  
 638.S7 Soleidae (Soles)  
 638.S73 Solenostomidae  
 638.S74 Sparidae (Porgies)  
 638.S77 Sphyrænidae (Barracudas)  
 638.S785 Stephanoberycidae  
 638.S8 Sternoptychidae  
 638.S84 Stichæidae (Pricklebacks)  
 638.S86 Stomiidae  
 638.S87 Stromateidae (Butterfishes)  
 638.S88 Stylephoridae (Tube-eyes)  
 Synancejidae, see QL638.S42  
 638.S892 Synaphobranchidae  
 638.S893 Synbranchidae  
 638.S9 Syngnathidae (Pipefishes; seahorses)  
 638.S96 Synodontidae (Lizardfishes)  
 638.T27 Teraponidae  
 Tetragonopteridae, see QL638.C5  
 638.T3 Tetragonuirdae  
 638.T32 Tetraodontidae (Puffers)  
 Theraponidae, see QL638.T27  
 Thunnidae, see QL638.S35  
 638.T55 Todaridae

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Osteichthys (Bony fishes). By family, A-Z -- Continued

- 638.T6 Toxotidae
- 638.T68 Trachichthyidae
- 638.T685 Trachinidae
- 638.T69 Trachipteridae (Ribbonfishes)
- 638.T695 Triacanthidae (Spikefishes)
- 638.T7 Trichiuridae (Cutlassfishes)
- 638.T73 Trichodontidae (Sandfishes)
- 638.T76 Trichomycteridae
- 638.T78 Trichonotidae
- 638.T8 Triglididae (Searobins)
- 638.T85 Triodontidae
- 638.T87 Tripterygiidae
- 638.T95 Trypauchenidae
- 638.U5 Umbridae (Mudminnows)
- 638.U7 Uranoscopidae (Stargazers)
- 638.V4 Veliferidae
- 638.X4 Xenocephalidae
- 638.X45 Xenocongridae (False morays)
- 638.X5 Xiphiidae (Swordfishes)
- 638.Z3 Zaniolepididae
- 638.Z36 Zaproridae (Prowfishes)
- 638.Z4 Zeidae (Dories)
- 638.Z6 Zoarcidae (Eelpouts)

## Agnatha (Jawless fishes)

- 638.12 General works
- Myxiniformes (Hagfishes)
- 638.14 General works
- 638.15.A-Z By family, A-Z
- 638.15.B35 Bdellostomatidae
- 638.15.M9 Myxinidae
- 638.15.P37 Paramyxinidae
- Petromyzoniformes (Lampreys)
- 638.2 General works
- 638.25.A-Z By family, A-Z
- 638.25.G45 Geotriidae
- 638.25.P48 Petromyzonidae

638.3

## Dipnoid fishes

Class here general works only  
For specific fishes, see QL637.9 +

638.5

## Ganoid fishes

Class here general works only  
For specific fishes, see QL637.9 +

## Chondrichthyes (Cartilaginous fishes)

638.6

## General works

## Chimaeriformes

638.7

## General works

638.75.A-Z

## By family, A-Z

638.75.C4

## Chimaeridae (Chimaeras)

## Chordates. Vertebrates

## Fishes

## Systematic divisions

## Chondrichthyes (Cartilaginous fishes) -- Continued

## Rajiformes (Rays)

## General works

## By family, A-Z

- 638.8  
 638.85.A-Z  
 638.85.A5  
 638.85.A7  
 638.85.D3  
 638.85.G9  
 638.85.M6  
 638.85.M9  
 638.85.P6  
 638.85.P7  
 638.85.R3  
 638.85.R4  
  
 638.85.R48  
 638.85.T6  
  
 638.9  
 638.93  
 638.95.A-Z  
 638.95.A4  
 638.95.C3  
  
 638.95.C4  
  
 638.95.G55  
 638.95.H4  
 638.95.H48  
  
 638.95.L3  
 638.95.O3  
 638.95.O7  
 638.95.P7  
 638.95.P8  
 638.95.R4  
 638.95.S3  
 638.95.S38  
 638.95.S7  
 638.95.S84  
 638.95.S88  
 638.95.T75  
 638.97  
 638.99  
 639
- Anacanthobatidae  
 Arhynchobatidae  
 Dasyatidae (Stingrays)  
 Gymnuridae  
 Mobulidae (Manta rays)  
 Myliobatidae (Eagle rays)  
 Potamotrygonidae  
 Pristidae (Sawfishes)  
 Rajidae (Skates)  
 Rhinobatidae (Guitarfishes)  
 Rhinopteridae, see QL638.85.M9  
 Rhynchobatidae  
 Torpedinidae (Electric rays)  
 Urolophidae, see QL638.85.D3
- Squaliformes (Sharks)  
 General works  
 Shark attacks. Shark repellants  
 By family, A-Z  
 Alopiidae (Thresher sharks)  
 Carcharhinidae (Requiem sharks)  
 Carchariidae, see QL638.95.O3  
 Cetorhinidae, see QL638.95.L3  
 Chlamydoselachidae (Frill sharks)  
 Dalatiidae, see QL638.95.S84  
 Echniorhinidae, see QL638.95.S84  
 Ginglymostomatidae (Nurse sharks)  
 Heterodontidae (Bullhead sharks)  
 Hexanchidae (Cow sharks)  
 Isuridae, see QL638.95.L3  
 Lamnidae (Mackerel sharks)  
 Odontaspididae (Sand tigers)  
 Orectolokidae (Carpet sharks)  
 Pristiophoridae  
 Pseudotriakidae  
 Rhincodontidae (Whale sharks)  
 Scapanorhynchidae  
 Scyliorhinidae (Cat sharks)  
 Sphyrnidae (Hammerhead sharks)  
 Squalidae (Dogfish sharks)  
 Squatinidae (Angel sharks)  
 Triakidae (Hound sharks)
- Immunology  
 Genetics  
 Anatomy and morphology

- Chordates. Vertebrates  
 Fishes -- Continued
- 639.1 Physiology  
 Including electrophysiology and electric fishes  
 For effects of pollution, disease, etc., see  
 SH171 +
- 639.15 Age determination. Age/growth calculations.  
 Length/weight relationships  
 For particular groups or species, see QL637.9 +
- 639.16 Racial analysis
- 639.2 Reproduction and spawning  
 Cf. SH155.6, Artificial spawning  
 Cf. SH155.7, Induced spawning
- 639.25 Development. Eggs and larvae
- 639.3 Behavior
- 639.4 Locomotion
- 639.5 Migration. Diadromy  
 Cf. SH156.8, Fish tagging
- 639.6 Vertical distribution  
 Including diel vertical migration
- 639.8 Ecology
- 640 Reptiles and amphibians  
 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 640.5 Collected works (nonserial)
- 640.7 Dictionaries
- 641 General works, treatises, and textbooks
- 643 Pictorial works and atlases
- 644 Popular works
- 644.2 Juvenile works
- Rare and endangered species
- 644.7 General works
- 644.7.73.A-Z By region or country, A-Z
- Extinct reptiles and/or amphibians
- 644.8 General works
- 644.83.A-Z By region or country, A-Z
- 645 Classification. Nomenclature
- 645.2 Catalogs and collections
- Evolution
- 645.3 General works
- 645.4 Speciation
- 645.5 Variation
- 645.7 Dangerous reptiles
- Geographical distribution  
 Class here works on the reptiles and/or amphibians  
 of a specific region  
 For geographical distribution of systematic  
 divisions, see QL665 +
- 648 General works  
 North America
- 651 General works  
 United States
- 652 General works

- Chordates. Vertebrates  
 Reptiles and amphibians  
 Geographical distribution  
 North America  
 United States -- Continued  
 By region or state, A-Z  
 653.A-Z  
 654 Canada  
 655 Mexico  
 Including Yucatán Peninsula  
 656 Central America (Table Q3)  
 656.5 West Indies (Table Q3)  
 657 South America (Table Q3)  
 658 Europe (Table Q3)  
 661 Asia (Table Q3)  
 662 Africa (Table Q3)  
 663 Australia  
 663.5 New Zealand  
 664 Pacific islands (Table Q3)  
 664.2 Arctic regions  
 664.4 Antarctica  
 664.6 Tropics  
 Systematic divisions  
 Reptiles  
 665 General works, treatises, and textbooks  
 Juvenile works, see QL644.2  
 666.A-Z By order and family, A-Z  
 Amphisbaenia (Ringed lizards; Worm lizards)  
 666.A45 General works  
 666.A453 Amphisbaenidae  
 Chelonia (Testudinata; turtles)  
 666.C5 General works  
 666.C52 Carettochelyidae (Pitted-shell turtles)  
 666.C535 Chelidae  
 666.C536 Cheloniidae  
 666.C539 Chelydridae  
 666.C54 Dermatemydidae  
 666.C546 Dermochelyidae (Leatherback turtle)  
 666.C547 Emydidae (Box turtles)  
 666.C55 Kinosternide  
 666.C57 Pelomedusidae  
 666.C584 Testudinidae (Tortoises)  
 666.C587 Trionychidae (Softshell turtles)  
 Crocodilia  
 666.C9 General works  
 666.C925 Crocodylidae (Alligators; crocodiles;  
 caimans)  
 666.C94 Gavialidae (Gavials)  
 Squamata  
 666.L19 General works  
 Lacertilia (Sauria; lizards)  
 666.L2 General works  
 666.L223 Agamidae  
 Amphisbaenidae, see QL666.A453

## Chordates. Vertebrates

## Reptiles and amphibians

## Systematic divisions

## Reptiles

## By order and family, A-Z

## Squamata

Lacertilia (Sauria;  
lizards) -- Continued

- 666.L225 Anelytropsidae  
 666.L2254 Anguidae (Glass lizards)  
 666.L2256 Anniellidae  
 666.L23 Chamaeleontidae  
 666.L234 Cordylidae (Girdle-tailed lizards)  
 666.L238 Dibamidae  
 666.L24 Eublepharidae  
 666.L243 Feylinidae  
 666.L245 Gekkonidae (Geckos)  
 666.L247 Helodermatidae (Gila monsters)  
 666.L25 Iguanidae  
 666.L255 Lacertidae  
 666.L2556 Lanthanotidae  
 666.L27 Pygopodidae  
 666.L28 Scincidae (Skinks)  
 Sphaerodactylidae, see QL666.L245  
 Teiidae  
 Varanidae (Monitor lizards)  
 Xantusiidae  
 Xenosauridae
- Ophidia (Serpents; snakes)  
 General works  
 Acrochorididae  
 Aniliidae  
 Boidae (Boas)  
 Colubridae  
 Crotalidae, see QL666.O69  
 Elapidae (Coral snakes)  
 Hydrophidae (Sea snakes)  
 Leptotyphlopidae (Slender blind snakes)  
 Typhlopidae (Slender blind snakes)  
 Uropeltidae (Shieldtail snakes)  
 Viperidae  
 Xenopeltidae
- Rhynchocephalia  
 General works  
 Sphenodontidae (Tuatara)  
 Squamata, see QL666.L19 +
- Amphibians  
 667 General works, treatises, and textbooks  
 Juvenile works, see QL644.2  
 668.A-Z By order and family, A-Z  
 Gymnophiona (Apoda; caecilians)  
 General works  
 668.A6 Caeciliidae  
 668.A63

- Chordates. Vertebrates  
 Reptiles and amphibians  
 Systematic divisions  
 Amphibians  
 By order and family, A-Z  
 Gymnophiona (Apoda;  
 caecilians) -- Continued  
 668.A65 Ichthyophiidae  
 668.A67 Rhinatrematidae  
 Caudata (Urodela; salamanders; newts)  
 668.C2 General works  
 668.C23 Ambystomatidae (Mole salamanders)  
 668.C237 Amphiumidae  
 668.C24 Cryptobranchidae  
 668.C25 Hynobiidae  
 668.C274 Plethodontidae (Lungless salamanders)  
 668.C277 Proteidae  
 668.C278 Rhyacotritonidae  
 668.C28 Salamandridae (Newts)  
 668.C285 Sirenidae  
 Ecaudata (Anura; Salientia; frogs; toads)  
 668.E2 General works  
 668.E22 Atelopodidae  
 668.E225 Brevicipitidae  
 668.E227 Bufonidae (Toads)  
 668.E23 Centrolenidae  
 668.E233 Dendrobatidae  
 668.E235 Discoglossidae  
 668.E24 Hylidae (Tree frogs)  
 668.E244 Hyperoliidae  
 668.E255 Leiopelmidae  
 668.E257 Leptodactylidae (Robber frogs)  
 668.E26 Microhylidae (Narrow-mouthed toads)  
 668.E2615 Myobatrachidae  
 668.E262 Pelobatidae (Spadefoot toads)  
 668.E2626 Pelodryadidae  
 668.E263 Pelodytidae  
 668.E264 Phrynomeridae  
 668.E265 Pipidae  
 668.E268 Pseudidae  
 668.E27 Ranidae (Frogs)  
 668.E274 Rhacophoridae  
 668.E275 Rhinophrynidae  
 668.5 Genetics  
 669 Anatomy and morphology  
 669.2 Physiology  
 669.3 Reproduction  
 Birds  
 671 Periodicals, societies, congresses, serial  
 collections, yearbooks  
 672 Collected works (nonserial)  
 672.2 Dictionaries and encyclopedias  
 672.5 Ornithological literature



- Chordates. Vertebrates  
 Birds -- Continued  
 History  
 672.7 General works  
 672.73.A-Z By region or country, A-Z  
 673 General works, treatises, and textbooks  
 674 Pictorial works and atlases  
 674.4 Ornithological illustration  
 675 Birds' eggs and nests  
 676 Popular works  
 676.2 Juvenile works  
 Bird protection. Bird refuges. Bird attracting  
 Including birdhouses, bird feeders, etc., and  
 gardening to attract birds  
 Cf. SK351+, Wildlife management. Game  
 protection  
 676.5 General works  
 By region or country  
 United States  
 676.55 General works  
 676.56.A-Z By region or state, A-Z  
 676.57.A-Z Other regions or countries, A-Z  
 676.7 Rare and endangered species  
 For local, see QL676.55+  
 676.8 Extinct birds  
 677 Classification. Nomenclature  
 677.2 Catalogs and collections  
 677.3 Evolution  
 677.4 Population dynamics  
 677.5 Study and teaching. Research  
 Including census taking and bird banding  
 677.7 Collection and preservation  
 677.75 Dangerous birds  
 677.8 Aviaries  
 Geographical distribution  
 For geographical distribution of systematic  
 divisions, see QL696.A+  
 678 General works  
 679 Zone divisions  
 e.g. Palaearctic region  
 America  
 680 General works  
 North America and United States  
 681 General works  
 United States  
 682 General works  
 683.A-Z By region, A-Z  
 684.A-W By state, A-W  
 Canada  
 685 General works  
 685.5.A-Z By region or province, A-Z  
 Latin America  
 685.7 General works

## Chordates. Vertebrates

## Birds

## Geographical distribution

## America

## Latin America -- Continued

686

## Mexico

687

## Central America (Table Q3)

688

## West Indies (Table Q3)

689

## South America (Table Q3)

690

## Europe (Table Q3)

691

## Asia (Table Q3)

691.5

## Arab countries (General)

692

## Africa (Table Q3)

693

## Australia

693.5

## New Zealand

694

## Pacific islands (Table Q3)

694.5

## Atlantic islands (Table Q3)

694.7

## Indian Ocean islands

695

## Arctic regions

695.2

## Antarctica

695.5

## Tropics

696.A-Z

## Systematic divisions. By order and family, A-Z

## Accipitriformes, see QL696.F3 +

## Alciformes, see QL696.C4 +

## Anseriformes

696.A5

## General works

696.A52

## Anatidae (Ducks; geese; swans)

696.A53

## Anhimidae (Screamers)

## Apodiformes

696.A55

## General works

696.A552

## Apodidae (Swifts)

696.A554

## Hemiprocnidae (Crested swifts)

696.A558

## Trochilidae (Hummingbirds)

## Apterygiformes

696.A6

## General works

696.A63

## Apterygidae (Kiwis)

## Ardeiformes, see QL696.C5 +

## Caprimulgiformes

696.C2

## General works

696.C22

## Aegothelidae (Owlet frogmouths)

696.C23

## Caprimulgidae (Goatsuckers)

696.C25

## Nyctibiidae (Potoos)

696.C26

## Podargidae (Frogmouths)

696.C28

## Steatornithidae (Oilbirds)

## Casuariiformes

696.C3

## General works

696.C33

## Casuariidae (Cassowaries)

696.C34

## Dromiceidae (Emus)

## Charadriiformes

696.C4

## General works

696.C42

## Alcidae (Auks; auklets; murre)

696.C428

## Burhinidae (Thick-knees)

696.C43

## Charadriidae (Plovers; turnstones; surfbirds)

## Chordates. Vertebrates

## Birds

Systematic divisions. By order and family, A-Z

## Charadriiformes -- Continued

- 696.C435 Chionididae (Sheathbills)  
 696.C44 Dromadidae (Crab plovers)  
 696.C448 Glareolidae (Pratincoles; coursers)  
 696.C452 Haematopodidae (Oystercatchers)  
 696.C457 Jacanidae (Jacanas)  
 696.C46 Laridae (Gulls; terns)  
 696.C465 Pedionomidae  
 696.C47 Phalaropodidae (Phalaropes)  
 696.C473 Recurvirostridae (Avocets; stilts)  
 696.C477 Rostratulidae (Painted snipes)  
 696.C479 Rynchopidae (Skimmers)  
 696.C48 Scolopacidae (Snipes; woodcocks; sandpipers)  
 696.C488 Stercorariidae (Skuas; jaegers)  
 696.C49 Thinocoridae (Seedsnipes)

## Ciconiiformes

- 696.C5 General works  
 696.C52 Ardeidae (Herons; bitterns)  
 696.C525 Balaenicipitidae (Shoebills)  
 696.C535 Ciconiidae (Storks; jabirus)  
 696.C536 Cochleariidae (Boatbilled herons)  
 696.C56 Phoenicopteridae (Flamingos)  
 696.C58 Scopidae (Hammerheads)  
 696.C585 Threskiornithidae (Ibises; spoonbills)

Coccyges, see QL696.C8 +

## Coliiformes

- 696.C59 General works  
 696.C593 Coliidae (Colies)

## Columbiformes

- 696.C6 General works  
 696.C63 Columbidae (Pigeons; doves)  
 696.C66 Pteroclididae (Sandgrouses)  
 696.C67 Raphidae (Dodos; solitaires)

## Coraciiformes

- 696.C7 General works  
 696.C72 Alcedinidae (Kingfishers)  
 696.C725 Brachypteraciidae (Groundrollers)  
 696.C729 Bucerotidae (Hornbills)  
 696.C73 Coraciidae (Rollers)  
 696.C74 Leptosomatidae (Cuckoo rollers)  
 696.C754 Meropidae (Bee-eaters)  
 696.C756 Momotidae (Motmots)  
 696.C77 Phoeniculidae (Woodhoopoes)  
 696.C78 Todidae (Todies)  
 696.C79 Upupidae (Hoopoes)

## Cuculiformes

- 696.C8 General works  
 696.C83 Cuculidae (Cuckoos; roadrunners; anis)  
 696.C85 Musophagidae (Plaintain-eaters; touracos)

Cypseliformes, see QL696.A55 +

## Chordates. Vertebrates

## Birds

## Systematic divisions.

By order and family, A-Z -- Continued

## Falconiformes

696.F3

General works

696.F32

Accipitridae (Hawks; Old World vultures; harriers)

696.F33

Cathartidae (New World vultures)

696.F34

Falconidae (Falcons; caracaras)

696.F36

Pandionidae (Ospreys)

696.F38

Sagittariidae (Secretarybirds)

## Galliformes

696.G2

General works

696.G23

Cracidae (Curassows; guans; chachalacas)

696.G25

Megapodiidae (Megapodes)

696.G254

Meleagrididae (Turkeys)

696.G258

Numididae (Guineafowl)

696.G26

Opisthocomidae (Hoatzins)

696.G27

Phasianidae (Pheasants; quail; peacocks)

696.G285

Tetraonidae (Grouse)

## Gaviiformes

696.G3

General works

696.G33

Gaviidae (Loons)

## Gruiformes

696.G8

General works

696.G82

Aramidae (Limpkins)

696.G827

Cariamidae (Seriemas)

696.G83

Eurypgidae (Sunbitterns)

696.G84

Gruidae (Cranes)

696.G845

Heliornithidae (Sungrebes)

696.G85

Meditornithidae (Roatelos)

696.G86

Otididae (Bustards)

Pedionomidae, see QL696.C465

696.G874

Psophiidae (Trumpeters)

696.G876

Rallidae (Rails; coots)

696.G878

Rhynochetidae (Kagus)

696.G89

Turnicidae (Bustardquails)

Halcyones, see QL696.C72

Lariformes, see QL696.C46

Limicolae, see QL696.C4 +

Meropidae, see QL696.C754

Musophagiformes, see QL696.C85

## Passeriformes

696.P2

General works

696.P212

Acanthisittidae (New Zealand wrens)

Aegithinidae, see QL696.P2344

696.P214

Alaudidae (Larks)

696.P216

Artamidae (Woodswallows)

696.P218

Atrichornithidae (Scrubbirds)

696.P22

Bombycillidae (Waxwings)

696.P224

Callaeidae (Wattled crows; huias; saddlebacks)

696.P225

Campephagidae (Cuckoo shrikes)

## Chordates. Vertebrates

## Birds

Systematic divisions. By order and family, A-Z

## Passeriformes -- Continued

- 696.P228 Catamblyrhynchidae (Plushcapped finches)  
 696.P23 Certhiidae (Creepers)  
 696.P234 Chamaeidae (Wrentits)  
 696.P2344 Chloropseidae (Leafbirds)  
 696.P235 Cinclinidae (Dippers)  
 696.P236 Coerebidae (Honeycreepers)  
 696.P2365 Conopophagidae (Antpipits)  
 696.P2367 Corvidae (Crows; magpies; jays)  
 696.P2368 Cotingidae (Cotingas)  
 696.P237 Cracticidae (Bell magpies; Australian  
 butcherbirds)  
 696.P239 Cyclarhidae (Peppershrikes)  
 696.P24 Dendrocolaptidae (Woodhewers)  
 696.P242 Dicaeidae (Flowerpeckers)  
 696.P2427 Dicruridae (Drongos)  
 696.P243 Drepanididae (Hawaiian honeycreepers)  
 696.P2435 Dulidae (Palmchats)  
 696.P2438 Emberizidae (Buntings; American sparrows; wood  
 warblers)  
 696.P244 Estrildidae (Waxbills)  
 696.P245 Eurylaimidae (Broadbills)  
 696.P2455 Formicariidae (Ant thrushes)  
 696.P246 Fringillidae (Grosbeaks; finches; buntings)  
 696.P2464 Furnariidae (Ovenbirds)  
 696.P2468 Grallinidae (Magpie larks)  
 696.P247 Hirundinidae (Swallows)  
 696.P2474 Hyposittidae (Caral billed nuthatches)  
 696.P2475 Icteridae (Blackbirds; troupials)  
 Irenidae, see QL696.P2585  
 696.P248 Laniidae (Shrikes)  
 696.P2485 Maluridae (Australian wrens)  
 696.P249 Meliphagidae (Honeyeaters)  
 696.P2495 Menuridae (Lyrebirds)  
 696.P25 Mimidae (Thrashers; mockingbirds)  
 696.P252 Motacillidae (Wagtails; pipits)  
 696.P255 Muscicapidae (Old World flycatchers)  
 696.P257 Nectariniidae (Sunbirds)  
 696.P2585 Oriolidae (Old World flycatchers)  
 696.P259 Oxyruncidae (Sharpbills)  
 696.P26 Paradisaeidae (Birds of paradise)  
 696.P2612 Paradoxornithidae (Parrotbills; suthoras)  
 696.P2615 Paridae (Titmice)  
 (696.P2618) Parulidae  
 see QL696.P2438  
 696.P262 Passeridae  
 696.P2625 Philepittidae (Asities; false sunbirds)  
 696.P2629 Phytotomidae (Plantcutters)  
 696.P263 Pipridae (Manakins)  
 696.P2634 Pittidae (Pittas)

## Chordates. Vertebrates

## Birds

Systematic divisions. By order and family, A-Z

## Passeriformes -- Continued

- 696.P264 Ploceidae (Weaverbirds)
- 696.P265 Prionopidae (Weaverbirds)
- 696.P266 Prunellidae (Accentors)
- 696.P267 Ptilogonatidae (Silky flycatchers)
- 696.P2675 Ptilonorhynchidae (Bowerbirds)
- 696.P268 Pycnonotidae (Bulbuls)
- 696.P27 Regulidae (Kinglets)
- 696.P273 Rhinocryptidae (Tapaculos)
- 696.P275 Sittidae (Nuthatches)
- 696.P278 Sturnidae (Starlings)
- 696.P279 Sylviidae (Old World warblers)
- 696.P28 Tersinidae (Swallow tanagers)
- 696.P282 Thraupidae (Tanagers)
- 696.P285 Timaliidae (Babblers)
- 696.P287 Troglodytidae (Wrens)
- 696.P288 Turdidae (Thrushes)
- 696.P289 Tyrannidae (Tyrant flycatchers)
- 696.P29 Vangidae (Vanga shrikes)
- 696.P294 Vireolaniidae (Shrike vireos)
- 696.P2945 Vireonidae (Vireos)
- 696.P296 Zeledoniidae (Wrenthrushes)
- 696.P298 Zosteropidae (White-eyes)

## Pelecaniformes

- 696.P4 General works
- 696.P42 Anhingidae (Snake-birds)
- 696.P45 Fregatidae (Frigate birds)
- 696.P47 Pelecanidae (Pelicans)
- 696.P474 Phaethontidae (Tropicbirds)
- 696.P4745 Phalacrocoracidae (Cormorants)
- 696.P48 Sulidae (Boobies; gannets)

Phoenicopteriformes, see QL696.C56

## Piciformes

- 696.P5 General works
- 696.P52 Bucconidae (Puffbirds)
- 696.P53 Capitonidae (Barbets)
- 696.P54 Galbulidae (Jacamars)
- 696.P55 Indicatoridae (Honeyguides)
- 696.P56 Picidae (Woodpeckers)
- 696.P57 Ramphastidae (Toucans)

## Podicipediformes

- 696.P58 General works
- 696.P586 Podicipedidae (Grebes)

## Procellariiformes

- 696.P6 General works
- 696.P63 Diomedidae (Albatrosses)
- 696.P64 Hydrobatidae (Storm petrels)
- 696.P66 Pelecanoididae (Diving petrels)
- 696.P665 Procellariidae (Shearwaters; fulmars)
- 696.P7

## Psittaciformes (Parrots)

## Chordates. Vertebrates

## Birds

## Systematic divisions.

By order and family, A-Z -- Continued

Puffinidae, see QL696.P665

Pygopodes, see QL696.P586

Pygopodes (Gaviidae), see QL696.G33

Rhamphastidae, see QL696.P57

## Rheiformes

696.R37

General works

696.R4

Rheidae (Rheas)

## Scansores

see QL671-QL695.5

## Sphenisciformes

696.S47

General works

696.S473

Spheniscidae (Penguins)

Steganopodes, see QL696.P4+

## Strigiformes

696.S8

General works

696.S83

Strigidae (Owls)

696.S85

Tytonidae (Barn owls)

## Struthioniformes

696.S87

General works

696.S9

Struthionidae (Ostriches)

## Tinamiformes

696.T37

General works

696.T4

Tinamidae (Tinamous)

Trochili, see QL696.A558

## Trogoniformes

696.T67

General works

696.T7

Trogonidae (Trogons)

696.5

## Genetics

697

Anatomy and morphology

698

Physiology

698.2

Reproduction

698.3

Behavior

Including social life and instinct

Eggs and nests, see QL675

Bird banding, see QL677.5

698.4

Food

698.5

Song. Vocalization

698.7

Flight

698.8

Navigation

698.85

Orientation

698.9

Migration

698.95

Ecology

699

Miscellany and curiosa

For birds of the Bible, see BS664

## Mammals

700

Periodicals, societies, congresses, serial  
collections, yearbooks

701

Collected works (nonserial)

701.2

Dictionaries and encyclopedias

- Chordates. Vertebrates  
 Mammals -- Continued
- 703 General works, treatises, and textbooks
  - 704 Compends
  - 705 Pictorial works and atlases
  - 706 Popular works
    - For popular works on domestic animals, see SF41
  - 706.2 Juvenile works
  - 706.5.A-Z Special topics, A-Z
  - 706.5.D38 Data processing
  - Rare and endangered species
    - 706.8 General works
    - 706.83.A-Z By region or country, A-Z
  - 707 Extinct mammals
  - 708 Classification. Nomenclature
  - 708.2 Catalogs and collections
  - 708.4 Collection and preservation
  - 708.5 Evolution
  - 708.6 Population dynamics
  - Geographical distribution
    - For geographical distribution of systematic divisions, see QL737.A +
  - 708.7 General works
  - Physiographic divisions
    - Aquatic
      - 713 General works
      - Marine
        - 713.2 General works
        - 713.25 Atlantic Ocean
    - Topographical divisions
      - North America
        - 715 General works
        - United States
          - 717 General works
          - 719.A-Z By region or state, A-Z
        - Canada
          - 721 General works
          - 721.5.A-Z By region or province, A-Z
        - 722 Mexico
        - 723 Central America (Table Q3)
        - 724 West Indies (Table Q3)
        - 725 South America (Table Q3)
      - Europe
        - 726 General works
        - 727 Great Britain
        - 728.A-Z Other regions or countries, A-Z
      - 729 Asia (Table Q3)
      - 731 Africa (Table Q3)
      - 733 Australia
      - 734 New Zealand
      - 735 Pacific islands (Table Q3)
      - 736 Arctic regions. Greenland
      - 736.2 Antarctica



## Chordates. Vertebrates

## Mammals

## Geographical distribution

## Topographical divisions -- Continued

736.5

## Tropics

737.A-Z

## Systematic divisions. By order and family, A-Z

## Carnivora

737.C2

## General works

737.C214

## Ailuropidae (Pandas)

737.C22

## Canidae (Dogs)

For domestic dogs, see SF421 +

737.C23

## Felidae (Cats)

For domestic cats, see SF441 +

737.C235

## Herpestidae (Mongoose)

737.C24

## Hyaenidae (Hyenas)

737.C25

## Mustelidae (Weasels, etc.)

737.C26

## Procyonidae (Raccoons)

737.C27

## Ursidae (Bears)

737.C28

## Viverridae (Civets, etc.)

## Cetacea

737.C4

## General works

## Mysticeti (Whalebone whales)

737.C42

## General works

737.C423

## Balaenidae (Right whales)

737.C424

## Balaenopteridae (Rorquals)

737.C425

## Eschrichtiidae (Gray whales)

## Odontoceti (Toothed whales)

737.C43

## General works

737.C432

## Delphinidae (Dolphins)

737.C433

## Monodontidae (Belugas; narwhales)

737.C434

## Phocoenidae (Porpoises)

737.C435

## Physeteridae (Sperm whales)

737.C436

## Platanistidae (River dolphins)

## Stenidae, see QL737.C432

737.C438

## Ziphiidae (Beaked whales)

## Chiroptera

737.C5

## General works

737.C52

## Desmodontidae (Vampires)

737.C525

## Emballonuridae (Sac-winged bats)

737.C53

## Furipteridae (Smoky bats)

737.C533

## Hipposideridae (Old World leaf-nosed bats)

737.C535

## Megadermatidae (False vampires)

737.C54

## Molossidae (Free-tailed bats)

737.C543

## Mormoopidae

737.C545

## Mystacinidae (New Zealand short-tailed bats)

737.C55

## Myzopodidae (Old World sucker-footed bats)

737.C555

## Natalidae (Funnel-eared bats)

737.C56

## Noctilionidae (Fisherman bats)

737.C565

## Nycteridae (Slit-faced bats)

737.C57

## Phyllostomidae (American leaf-nosed bats)

737.C575

## Pteropodidae (Old World fruit bats)

737.C58

## Rhinolophidae (Horseshoe bats)

737.C585

## Rhinopomatidae (Mouse-tailed bats)

## Chordates. Vertebrates

## Mammals

Systematic divisions. By order and family, A-Z

- Chiroptera -- Continued
- 737.C59 Thyropteridae (Disk-winged bats)
- 737.C595 Vespertilionidae
- Dermoptera
- 737.D35 General works
- 737.D4 Cynocephalidae (Flying lemurs)
- Edentata. Xenarthra
- 737.E2 General works
- 737.E22 Bradypodidae (Three-toed tree sloths)
- 737.E23 Dasypodidae (Armadillos)
- 737.E238 Megalonychidae (Two-toed tree sloths)
- 737.E24 Myrmecophagidae (Anteaters)
- Hyracoidea
- 737.H85 General works
- 737.H9 Procaviidae (Hyraxes)
- Insectivora
- 737.I5 General works
- 737.I52 Chrysochloridae (Golden moles)
- 737.I53 Erinaceidae (Hedgehogs)
- (737.I54) Macroscelididae (Elephant shrews)  
See QL737.M242
- 737.I545 Potamoglaidae (Water shrews)
- 737.I55 Solenodontidae (Solenodons)
- 737.I56 Soricidae (Shrews)
- 737.I57 Talpidae (Moles)
- 737.I58 Tenrecidae (Tenrecs)
- Lagomorpha
- 737.L3 General works
- 737.L32 Leporidae (Rabbits; hares)
- 737.L33 Ochotonidae (Pikas)
- Macroscelidea
- 737.M24 General works
- 737.M242 Macroscelididae (Elephant shrews)
- Marsupialia
- 737.M3 General works
- 737.M32 Caenolestidae (Rat opossums)
- 737.M33 Dasyuridae
- 737.M34 Didelphidae (Opossums)
- 737.M35 Macropodidae (Kangaroos; wallabies)
- 737.M36 Myrmecobiidae, see QL737.M33
- 737.M37 Notoryctidae (Marsupial moles)
- 737.M372 Peramelidae (Bandicoots)
- 737.M373 Peroryctidae (Bandicoots)
- 737.M38 Petauridae
- 737.M384 Phalangeridae (Phalangers)
- 737.M386 Phascolartidae (Koalas)
- 737.M388 Potoroidae (Bettongs, potoroos, rat-kangaroos)
- 737.M388 Thylacinidae
- 737.M39 Vombatidae
- Monotremata

## Chordates. Vertebrates

## Mammals

Systematic divisions. By order and family, A-Z

## Monotremata -- Continued

737.M7

General works

737.M72

Ornithorhynchidae (Platypus)

737.M73

Tachyglossidae (Echidnas)

## Pholidota

737.P4

General works

737.P5

Manidae (Pangolins)

## Pinnipedia

737.P6

General works

737.P62

Odobenidae (Walrus)

737.P63

Otariidae (Eared seals)

737.P64

Phocidae (Seals)

## Primates

737.P9

General works

737.P917

Callimiconidae

737.P92

Callitrichidae (Marmosets; tamarins)

737.P925

Cebidae (New World monkeys)

737.P93

Cercopithecidae (Old World monkeys)

737.P935

Daubentoniidae (Aye-ayes)

737.P937

Galagonidae (Galagos)

(737.P94)

Hominidae

See GN51-GN289.2

737.P945

Indridae

737.P95

Lemuridae (Lemurs)

737.P955

Lorisidae (Lorises; pottos)

737.P96

Pongidae (Apes)

737.P965

Tarsiidae (Tarsiers)

(737.P968)

Tupaïidae (Tree shrews)

See QL737.S254

## Proboscidea

737.P97

General works

737.P98

Elephantidae (Elephants)

## Rodentia

737.R6

General works

737.R62

Abrocomidae

737.R624

Anomaluridae (Scaly-tailed squirrels)

737.R626

Aplodontidae (Mountain beavers)

737.R628

Bathyergidae (African mole rats)

737.R63

Capromyidae (Nutrias)

737.R632

Castoridae (Beavers)

737.R634

Caviidae (Cavies)

737.R636

Chinchillidae (Chinchillas)

(737.R638)

Cricetidae (New World rats and mice)

See QL737.R666

737.R64

Ctenodactylidae (Gundis)

737.R642

Ctenomyidae (Tucu-tucos)

737.R644

Dasyproctidae (Pacas; agoutis)

737.R646

Dinomyidae (Pacaranas)

737.R648

Dipodidae (Jerboas)

737.R65

Echimyidae (Spiny rats)

## Chordates. Vertebrates

## Mammals

Systematic divisions. By order and family, A-Z

## Rodentia -- Continued

- 737.R652 Erethizontidae (New World procupines)  
 737.R654 Geomyidae (Pocket gophers)  
 737.R656 Gliridae (Dormice)  
 737.R66 Heteromyidae (Pocket mice; kangaroo rats)  
 737.R662 Hydrochaeridae (Capybara)  
 737.R664 Hystricidae (Old World porcupine)  
 737.R666 Muridae (Old World rats and mice)  
 737.R668 Myocastoridae (Coypus)  
 737.R67 Octodontidae  
 737.R672 Pedetidae (Springhares)  
 737.R674 Petromyidae (Rock mice)  
 737.R676 Platacanthomyidae (Spiny dormice)  
 737.R678 Rhizomyidae  
 737.R68 Sciuridae (Squirrels)  
 737.R682 Seleviniidae (Desert dormice)  
 737.R684 Spalacidae (Mole-rats)  
 737.R686 Thyronomyidae (Cane rats)  
 737.R688 Zapodidae (Jumping mice)

## Scandentia

- 737.S25 General works  
 737.S254 Tupaiidae (Tree shrews)

## Sirenia

- 737.S6 General works  
 737.S62 Dugongidae (Dugongs)  
 737.S63 Trichechidae (Manatees)

## Tubulidentata

- 737.T75 General works  
 737.T8 Orycteropodidae (Aardvarks)

## Ungulata

- 737.U4 General works  
 Artiodactyla (Even-toed ungulates)  
 737.U5 General works  
 737.U52 Antilocapridae (Pronghorns)  
 737.U53 Bovidae  
     For domestic cattle, sheep, and goats, see  
     SF1 +  
 737.U54 Camelidae (Camels)  
 737.U55 Cervidae (Deer)  
 737.U56 Giraffidae  
 737.U57 Hippopotamidae (Hippopotami)  
 737.U58 Suidae (Old World pigs)  
     For domestic swine, see SF391 +  
 737.U59 Tayassuidae (Peccaries)  
 737.U595 Tragulidae (Chevrotains)  
 Perissodactyla (Odd-toed ungulates)  
 737.U6 General works  
 737.U62 Equidae (Horses)  
     For domestic horses, see SF277 +  
 737.U63 Rhinocerotidae (Rhinoceroses)

- Chordates. Vertebrates
- Mammals
- Systematic divisions. By order and family, A-Z
- Ungulata
- Perissodactyla (Odd-toed ungulates) -- Continued
- 737.U64 Tapiridae (Tapirs)
- Xenarthra, see QL737.E2+
- 738 Miscellany and curiosa
- 738.5 Genetics
- 739 Anatomy and morphology
- Cf. QL801+, Comparative anatomy
- For anatomy of domestic animals, see SF761+
- 739.15 Cytology
- Physiology
- Cf. QP1+, Animal physiology
- For physiology of domestic animals, see SF768+
- 739.2 General works
- 739.23 Reproduction
- 739.25 Age determination
- Behavior
- 739.3 General works
- 739.5 Migration
- 739.8 Ecology
- Animal behavior
- Class here general works on animal behavior and general works on particular types of animal behavior
- For comparative psychology and behavior of animals and humans, see BF660+
- For works on the behavior of special groups of domestic animals or individual domestic animals, see SF756.7
- For works on the behavior of special groups or individual animals, see QL360+
- 750 Periodicals, societies, congresses, serial collections, yearbooks
- 750.3 Dictionaries and encyclopedias
- 750.5 History
- 751 General works, treatises, and textbooks
- Cf. QH540+, General and animal ecology
- Cf. SF1+, Animal culture
- 751.5 Juvenile works
- 751.6 Addresses, essays, lectures
- 751.65.A-Z Special aspects of the subject as a whole, A-Z
- 751.65.D37 Data processing
- 751.65.M3 Mathematical models
- 751.65.M32 Mathematics
- 751.65.S55 Simulation methods
- 751.7 Laboratory manuals
- Special topics

- Animal behavior  
 Special topics -- Continued
- 752 Animal populations  
 For population studies of a particular group of animals, see systematic sections  
 Cf. QL618.3, Fish population dynamics  
 Cf. QL677.4, Bird population dynamics
- Periodicity. Seasonal habits
- 753 General works
- 754 Migration  
 Cf. QL496.2, Migration of insects  
 Cf. QL639.5, Migration of fishes  
 Cf. QL698.9, Migration of birds  
 Cf. QL739.3, Migration of mammals
- 755 Hibernation  
 Sleep behavior
- 755.3 General works
- 755.5 Nocturnal animals
- Habitations
- 756 General works
- 756.15 Burrowing. Burrowing animals
- 756.2 Territoriality
- Food
- 756.5 General works
- 756.55 Bloodsucking animals
- 756.57 Cannibalism
- 756.7 Drug use
- 756.8 Symbiosis
- 757 Parasitology  
 Cf. QL392.A1+, Helminthology  
 Cf. RC119+, Parasitic diseases of man  
 Cf. SF810.A3+, Parasitic diseases of animals
- 758 Predation. Predatory animals  
 Cf. SF810.5+, Predator control
- 758.5 Aggression. Agonistic behavior
- 758.7 Reconciliation
- 759 Defense mechanisms
- 760 Grooming behavior
- 761 Sexual relations
- 761.5 Familial behavior. Kin recognition
- 762 Parental behavior
- 762.5 Infanticide
- Developmental behavior
- 763 General works
- 763.2 Critical periods. Imprinting
- 763.5 Play behavior
- 765 Voice. Sound production  
 Cf. QL496.5, Insect sounds
- 767 Color
- 768 Animal tracks and signs  
 Cf. SK282, Tracking
- 775 Social relations. Animal societies  
 Cf. QL364.5, Coloniality

- Animal behavior
  - Special topics -- Continued
    - 776 Communication
    - 780 Eliminative behavior
    - 781 Instinct
    - 781.3 Motivation
    - 782 Navigation
      - Cf. QL698.8, Navigation by birds
    - 782.5 Orientation
    - Psychology. Intelligence. Learning
      - 785 General works
      - 785.2 Memory
        - Cf. QP406, Physiology
      - 785.24 Number concept
      - 785.25 Consciousness
      - 785.27 Emotions
      - 785.3 Extrasensory perception
      - (785.5) Special animals
        - See QL362+, or SF, (Domestic animals)
    - Stories and anecdotes
      - For animals in motion pictures, see PN1995.9.A5
      - For animals in television, see PN1992.8.A58
      - For circus animals, see GV1829+
      - For domesticated animals, see SF1+
      - For wild animals as pets, see SF459.A+
    - 791 General works
    - 793 Famous animals
    - 795.A-Z Special. By common name of animal, A-Z
      - 795.A35 African hunting dog
      - 795.A4 Alligators
      - 795.A6 Antelopes
      - 795.A8 Asses, Wild
      - 795.B2 Badgers
      - 795.B3 Bats
      - 795.B4 Bears
      - 795.B5 Beavers
      - 795.B53 Bees
      - 795.B57 Birds
        - Cf. SF460+, Cage birds
      - 795.B6 Bison
      - Black eagle, see QL795.B57
      - 795.B8 Buffaloes
      - 795.B85 Butterflies
      - Canada goose, see QL795.B57
      - 795.C2 Cats, Wild
        - Cf. SF445.5, Stories about domestic cats
      - 795.C3 Cattle, Wild
        - Cf. SF197.4, Stories about domestic cattle
      - 795.C5 Chamois
      - 795.C54 Cheetahs
      - 795.C57 Chimpanzees
      - 795.C6 Coyotes
      - 795.C65 Crabs

## Animal behavior

## Stories and anecdotes

Special. By common name of animal, A-Z -- Continued

- 795.C67 Crocodiles  
 795.D3 Deer  
 795.D5 Dingoes  
 795.D6 Dogs  
     Cf. SF426.2, Stories about domestic dogs  
 795.D7 Dolphins  
     Ducks, Wild, see QL795.B57  
 795.E4 Elephants  
 795.E94 European wildcat  
 795.F65 Fireflies  
 795.F7 Fishes  
 795.F8 Foxes  
 795.F85 Frogs  
 795.G3 Gazelles  
 795.G5 Gibbons  
 795.G55 Giraffes  
 795.G7 Gorillas  
 795.H3 Hamsters  
 795.H35 Hares  
 795.H4 Hedgehogs  
 795.H6 Hippopotami  
 795.H65 Hornets  
 795.H7 Horses, Wild  
     Cf. SF301, Stories about domestic horses  
     Hunting dog, African, see QL795.A35  
 795.J27 Jackals  
 795.J3 Jaguars  
 795.K3 Kangaroos  
 795.K62 Koalas  
 795.L5 Leopards  
 795.L7 Lions  
 795.L9 Lynxes  
 795.M3 Marmots  
 795.M37 Mice  
 795.M5 Minks  
 795.M57 Moles  
 795.M6 Mongooses  
 795.M7 Monkeys  
 795.M8 Moose  
     Mules, see SF362  
 795.M85 Musk-oxen  
 795.M87 Muskrats  
 795.O7 Orangutans  
 795.O8 Otters  
 795.P18 Pandas  
 795.P2 Panthers  
 795.P28 Peccaries  
     Ponies, Wild, see QL795.H7  
 795.P6 Porcupines  
 795.P85 Pumas



## Animal behavior

## Stories and anecdotes

Special. By common name of animal, A-Z -- Continued

795.R15  
795.R2  
795.R4  
795.R45  
795.R5  
795.S3

Rabbits, Wild, see QL795.H35

Raccoons

Rats

Reindeer

Rhinoceroses

Ring-tailed phalangers

Salamanders

Sea otters, see QL795.O8

795.S43

Seals

795.S46

Sharks

795.S47

Shrews

795.S55

Skunks

795.S6

Sloths

795.S65

Snakes

795.S7

Squirrels

795.S9

Swine

795.T5

Tigers

795.T8

Turtles

795.W4

Weasels

795.W5

Whales

795.W6

Wild boars

795.W8

Wolves

795.W83

Wombats

795.Z42

Zebras

## Morphology

Class here general works on animal form, structure, body size, etc.

For particular animals, see QL363 +

799

General works, treatises, and textbooks

799.3

Juvenile works

799.5

Study and teaching. Research

## Anatomy

Here are classified general works on comparative anatomy and special works on the anatomy of individual organs.

For works on the general anatomy or the anatomy of specific organs of special groups of animals, see the preceding systematic divisions or SF, Domestic animals

For human anatomy, see QM1 +

For invertebrate anatomy, see QL363

801

Periodicals, societies, congresses, serial collections, yearbooks

803

Collected works (nonserial)

803.3

Dictionaries

803.5

Nomenclature, terminology, notation, abbreviations

804

Early works through 1800

805

General works, treatises, and textbooks

806

Pictorial works and atlases

806.5

Juvenile works

- Anatomy -- Continued
- 807 Comparative histology  
For special tissues, see QM559 +
- 808 Addresses, essays, lectures  
Study and teaching. Research
- 810 General works
- 810.5 Problems, exercises, examinations
- 811 Outlines, syllabi  
Laboratory manuals
- 812 General works
- 812.5 Dissection
- 813.A-Z By laboratory animal, A-Z  
For specific organs or parts of the body, see  
QL821 +
- 813.C38 Cat
- 813.D64 Dog  
Dogfish shark, see QL813.F57
- 813.F57 Fish
- 813.F75 Frog
- 813.G63 Goats
- 813.G73 Grasshopper
- 813.H35 Hamster
- 813.M55 Mice
- 813.M56 Mink  
Perch, see QL813.F57
- 813.P54 Pig
- 813.R3 Rabbit
- 813.R37 Rats  
Sharks, see QL813.F57
- 813.S69 Squid
- Museums. Exhibitions
- 814.A1 General works
- 814.A2-Z By region or country, A-Z  
Apply table at QL71.A2-Z
- Skeleton. Osteology  
For histology, see QM569
- 821 General works
- 822 Skull
- 823 Catalogs of specimens
- 825 Articulations
- 827 Ligaments
- 831 Muscles  
For histology, see QM571
- Vascular system
- 835 Blood vessels
- 838 Heart
- 841 Lymphatics
- Respiratory organs
- 845 General works
- 846 Branchiae (Gills)
- 847 Tracheae in Arthropoda
- 848 Lungs
- 849 Pleura

## Anatomy

- 851 Respiratory organs -- Continued
  - 852 Diaphragm
  - 853 Respiratory passages
  - 854 Larynx
  - 855 Trachea. Bronchi
  - Air sacs, swimming bladders, etc.
- Digestive organs
  - 856 General works
  - 857 Mouth
  - 858 Teeth
  - 861 Pharynx. Esophagus. Tonsils
  - 862 Stomach
  - 863 Intestines
  - 863.5 Peritrophic membranes
  - 864 Peritoneum. Mesentery and omentum
  - Glands
    - 865 Salivary glands
    - 866 Pancreas
    - 867 Liver
  - 868 Ductless glands
    - Including spleen, thyroid, thymus, suprarenal, pineal, pituitary, carotid, etc.
- Urogenital system
  - 871 General works
  - Excretory organs
    - 872 General works
    - 872.5 Nephridia
    - 872.7 Wolffian body
    - 873 Kidneys
    - 873.5 Ducts
    - 874 Bladder
    - 875 Urethra
  - Reproductive organs
    - 876 General works
    - 878 Male
    - 881 Female
- Nervous system
  - For histology, see QM575
  - 921 Periodicals, societies, congresses, serial collections, yearbooks
  - 923 Collected works (nonserial)
  - 925 General works, treatises, and textbooks
  - 927 Laboratory manuals. Neurological technique
  - 931 Neural elements: Cells, fibers, supporting structures, etc.
  - Central nervous system. Brain
    - 933 General works, treatises, and textbooks
    - Special types
      - 935 Invertebrate
      - 937 Vertebrate
    - 938.A-Z Special structures, A-Z
    - 938.A35 Afferent pathways

## Anatomy

## Nervous system

## Central nervous system. Brain

## Special structures, A-Z -- Continued

- 938.B73 Brain stem
- 938.C46 Cerebral cortex
- 938.C47 Cerebral ventricles
- 938.D44 Dentate nucleus
- 938.D53 Diencephalon
- 938.D65 Dorsal ventricular ridge
- 938.H56 Hippocampus
- 938.H94 Hypothalamus
- 938.L55 Limbic system
- 938.M4 Mechanoreceptors
- 938.M43 Medial geniculate body
- 938.N45 Neocortex
- 938.N48 Neural crest
- 938.O44 Olivary nucleus
- 938.P7 Prosencephalon
- 938.R53 Rhinencephalon
- 938.S6 Spinal cord
- 938.T45 Thalamus

939 Peripheral nervous system. Sympathetic nervous system

940 Animal weapons for defense and offense

## Integument. Skin

- 941 General works
- 942 Hair. Fur. Scales. Nails. Hoofs. Horns
- 943 Skin glands. Odoriferous glands

944 Mammae

## Sense organs

- 945 General works
- 946 Tongue
- 947 Nose
- 948 Ear
- 949 Eye

## Topographical and regional anatomy

- 950.1 General works, treatises, and textbooks
- 950.2 External form of the body
- 950.3 Trunk
- 950.4 Neck
- 950.5 Head
- 950.6 Tail
- 950.7 Limbs
- 950.9 Segmental anatomy

## Embryology

- For special organs see QL821 +
- For human embryology, see QM601 +
- 951 Periodicals, societies, congresses, serial collections, yearbooks
- 952 Nomenclature, terminology, notation, abbreviations
- 953 History
- Biography

- Embryology
  - Biography -- Continued
    - 954 Collective
    - 954.2.A-Z Individual, A-Z
    - 955 General works, treatises, and textbooks
      - Including general works on vertebrates or invertebrates
    - 956 Pictorial works and atlases
    - 956.5 Juvenile works
    - 957 Laboratory manuals
    - Individual orders, genera, species, etc.
      - 958 Invertebrate
      - 959 Vertebrate
    - Special topics
      - 961 Experimental embryology
      - 962 Behavioral embryology
      - 963 Chemical embryology
      - 963.5 Cell differentiation
        - Cf. QH607, Cytology
      - Germ cells
        - 964 General works
        - 965 Oogenesis and ovum
        - 966 Spermatogenesis and spermatozoa
          - For fertilization, see QP273
      - Development of the embryo
        - Including twins, multiple birth, etc.
      - General works
      - 971 Organizer
      - 971.2 Allantois. Placenta
      - 973 Amnion. Amniotic fluid
      - 975 Chorion
      - 977 Myogenesis
      - 979 Chondrogenesis
      - 979.5 Metamorphosis
      - 981 Teratology
      - 991

- Human anatomy  
 Class here only works which deal with human anatomy  
 For comparative anatomy, see QL801 +  
 For physical anthropology, see GN49 +  
 For works which include both human physiology and anatomy, see QP1 +
- 1 Periodicals, societies, congresses, serial collections, yearbooks
- 5 Collected works (nonserial)
- 7 Dictionaries and encyclopedias  
 Nomenclature, terminology, notation, abbreviations, see QM81
- 11 History  
 Biography
- 16.A2 Collective
- 16.A3-Z Individual, A-Z  
 e.g.  
 Leonardo da Vinci  
 Vesalius
- 16.L4 Directories
- 16.V5 Directories
- 17 Directories
- 21 Early works through 1800  
 General works, treatises, and textbooks
- 23 1801-1969
- 23.2 1970-
- 24 Comparative anatomy of humans  
 Cf. GN281 +, Human evolution. Man's place in nature
- 24.5 Anatomy of the child  
 Cf. RJ131 +, Growth and development of children
- 25 Pictorial works and atlases
- 26 Popular works
- 27 Juvenile works
- 28 Special aspects of the subject as a whole  
 Study and teaching. Research
- 30 General works
- 31 Outlines, syllabi
- 32 Problems, exercises, examinations
- 33 Charts, manikins, etc.  
 By country  
 United States
- 33.1 General works
- 33.2.A-Z By region or state, A-Z  
*Under each state:*  
 .x *General works*  
 .x2A-.x2Z *Local, A-Z*  
 .x3A-.x3Z *Special schools or universities. By name, A-Z*

- Study and teaching. Research  
 By country -- Continued
- 33.3.A-Z Other regions or countries, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Local, A-Z  
 .x3A-.x3Z Special schools or universities. By name, A-Z
- Dissection
- 33.4 History
- 33.5 General works, treatises, and textbooks
- 34 Manuals of practical anatomy. Laboratory manuals
- 35 Outline guides
- 39 Laboratory technique
- Laboratories
- 41 General works
- 43.A-Z By region or country, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Individual laboratories. By name, A-Z
- Museums. Exhibitions
- 51.A1 General works
- 51.A2-Z By region or country, A-Z  
*Under each country:*  
 .x General works  
 .x2A-.x2Z Special. By city, A-Z
- 71 Addresses, essays, lectures
- 81 Nomenclature, terminology, notation, abbreviations
- 100 Musculoskeletal system
- Skeleton. Osteology  
 Cf. RA1059, Forensic osteology
- 101 General works
- 105 Skull  
 Cf. GN71+, Craniology
- 111 Vertebral column
- 113 Ribs and sternum
- 115 Hipbone and pelvis
- 117 Bones of the extremities
- Articulations. Joints
- 131 General works
- 141 Ligaments
- 142 Articular cartilage
- Muscles
- 151 General works
- 155 Of the head and neck
- 161 Of the trunk
- 165 Of the limbs
- 170 Tendons
- Vascular system  
 For works on the blood vessels of a particular organ or system, see the organ or system
- 178 General works
- 181 Heart. Pericardium

- Vascular system -- Continued
- 191 Arteries and veins
- 197 Lymphatics
- Organs of respiration and voice
- 251 General works
- 255 Larynx  
Cf. QP306, Larynx physiology
- 257 Trachea. Bronchi
- 261 Lungs. Pleura
- 265 Diaphragm
- Organs of digestion
- 301 General works
- 306 Mouth
- 311 Teeth
- 325 Salivary glands
- 331 Pharynx. Esophagus. Tonsils
- 341 Stomach
- 345 Intestines
- 351 Liver
- 352 Gallbladder
- 353 Pancreas
- 367 Peritoneum. Mesentery and omentum
- Glands
- Cf. QM325, Salivary glands
- Cf. QM351, Liver
- Cf. QM353, Pancreas
- 368 General works, treatises, and textbooks
- 371 Ductless glands  
Including spleen, thyroid, thymus, suprarenal,  
pineal, pituitary, carotid
- Urinary and reproductive organs
- 401 General works
- 404 Kidneys
- 408 Ureters
- 411 Bladder
- 413 Urethra
- 416 Generative organs, Male
- 421 Generative organs, Female
- 431 Perineum
- Nervous system
- For works on the innervation of a particular organ or  
system, see the organ or system
- 451 General works
- 455 Brain
- 465 Spinal cord
- 469 Meninges
- 471 Peripheral nervous system. Sympathetic nervous  
system. Cranial nerves, etc.
- Integument
- 481 General works
- 484 External skin
- 485 Bursae mucosae
- 488 Hair. Nails



- Integument -- Continued
- 491 Skin glands
- 495 Mammae
- Sense organs
- 501 General works
- 503 Tongue
- 505 Nose
- 507 Ear
- 511 Eye
- Regional anatomy
- Including surgical and topographical anatomy
- 531 General works, treatises, and textbooks
- Special regions
- 535 Head and neck. Jaws
- Trunk
- 540 General works
- 541 Thorax
- 543 Abdomen
- Limbs
- 548 Upper. Arm and hand
- 549 Lower. Leg and foot
- Human and comparative histology
- Including microscopic anatomy and ultrastructure
- For general comparative histology, see QL807
- 550 Periodicals, societies, congresses, serial collections, yearbooks
- 550.2 Dictionaries and encyclopedias
- Biography
- 550.5 Collective
- 550.6.A-Z Individual, A-Z
- 551 General works, treatises, and textbooks
- Study and teaching. Research
- 552 General works
- 553 Outlines, syllabi
- 554 Problems, exercises, examinations
- 555 Laboratory manuals
- Laboratory technique
- 556 General works
- 556.5.A-Z Special methods, A-Z
- Embedding, Plastic, see QM556.5.P53
- 556.5.F5 Fixation
- 556.5.L9 Lyophilization
- 556.5.P53 Plastic embedding
- 557 Pictorial works and atlases
- Special tissues
- 559 Pigment
- 561 Epithelium
- Cf. QP88.4, Physiology
- 562 Endothelium
- Cf. QP88.45, Physiology
- 563 Connective tissues
- 565 Adipose tissues
- 567 Cartilaginous tissues

- Human and comparative histology  
 Special tissues -- Continued
- 569 Bony tissues
    - Including bone marrow
  - 569.5 Hematopoietic system
  - 570 Blood vessels
  - 570.5 Heart
  - 570.7 Lymphatics
  - 571 Muscular tissues
  - 575 Nerve tissues
  - 575.5 Blood-brain barrier
  - 576 Endocrine glands
  - Generative organs
    - 577 General works
    - 577.4 Male
    - 577.8 Female
- Human embryology
- 601 General works, treatises, and textbooks
  - 602 Pictorial works and atlases
  - 603 Popular works
  - 608 Research. Experimentation
  - 611 Special topics (not A-Z)
  - Teratology
    - Cf. GT6730, Manners and customs
    - 690 Early works through 1800
    - 691 1801-
    - 695.A-Z By region, system, or organ of the body, A-Z
      - Class clinical aspects in R
      - 695.B36 Basicranium
      - 695.B7 Brain
      - 695.C37 Cardiovascular system
      - 695.E95 Extremities
      - 695.F32 Face
      - 695.G45 Generative organs
      - 695.N45 Nervous system
      - 695.P76 Prosencephalon
      - 695.U74 Urinary organs
      - 695.V55 Viscera

- Physiology
  - For the physiology of special animals or groups of animals see the systematic divisions QL364 + Cf. GN221 +, Physiological anthropology
- 1 Periodicals, societies, congresses, serial collections, yearbooks
- 6 Collected works (nonserial)
- 11 Dictionaries and encyclopedias
- 13 Nomenclature, terminology, notation, abbreviations
- 21 History
- Biography
  - 25 Collective
  - 26.A-Z Individual, A-Z
    - e.g.
    - 26.H3 Harvey
    - 26.P35 Pavlov
- 29 Early works through 1800
- General works, treatises, and textbooks
  - 31 1801-1969
  - 31.2 1970-
- 33 Comparative physiology
- 33.5 Special aspects of the subject as a whole
- 33.6.A-Z Special topics, A-Z
  - 33.6.C48 Chaotic processes
  - 33.6.D38 Data processing
  - 33.6.M36 Mathematical models
- Human physiology
  - Including general works on human biology
  - General works, treatises, and advanced textbooks
    - 34 Through 1969
    - 34.5 1970-
- 36 School textbooks of physiology and hygiene
- 37 Juvenile works
- 38 Popular works
- Study and teaching. Research
  - Cf. RA440 +, Hygiene
- 39 General works
- 40 Problems, exercises, examinations
- 41 Outlines, syllabi
- Experimental physiology
  - 42 Elementary works
    - Including laboratory manuals
  - 43 Advanced works
  - 44 Laboratory manuals
  - Data processing, see QP33.6.D38
- 45 Vivisection
  - Cf. HV4905 +, Anti-vivisection
- 47.A-Z By region or country, A-Z
- Laboratories
  - 51 General works

- Laboratories -- Continued
- 53.A-Z By region or country, A-Z  
*Under each country:*  
*.x General works*  
*.x2A-.x2Z Individual laboratories. By name, A-Z*
- 54 Technique
- 55 Instruments and apparatus
- 71 Addresses, essays, lectures
- 77 Miscellany and curiosa
- Phenomena of animal life (General)
- 81 General works
- 81.5 Sex differences
- 81.6 Sexual orientation. Homosexuality
- Influence of the environment (General). Animal ecophysiology. Physiological adaptation  
 Cf. GF1+, Human ecology
- 82 General works
- 82.2.A-Z Special topics, A-Z
- 82.2.A2 Acceleration
- 82.2.A3 Air pollution
- 82.2.A4 Altitude
- Anoxemia, see QP177
- Biomagnetism, see QP82.2.M3
- 82.2.C5 Climate. Weather  
 Cf. QP82.2.H8, Humidity  
 Cf. QP82.2.T4, Temperature
- 82.2.C6 Cold
- 82.2.E4 Electrolytes
- 82.2.E43 Electromagnetic waves
- 82.2.G35 Gamma waves
- 82.2.G7 Gravity
- 82.2.H4 Heat
- 82.2.H44 Heavy metals
- 82.2.H45 Heavy particles
- 82.2.H8 Humidity
- 82.2.I45 Infrasonic waves
- 82.2.I5 Ionized air
- 82.2.I53 Ionizing radiation
- 82.2.L3 Lasers
- 82.2.L5 Light
- 82.2.M3 Magnetism
- 82.2.M5 Microwaves
- 82.2.M54 Millimeter waves
- 82.2.N6 Noise
- 82.2.N64 Nonionizing radiation
- 82.2.P4 Pesticides
- 82.2.P6 Pollution
- 82.2.P7 Pressure
- 82.2.R3 Radiation
- Radiation, Ionizing, see QP82.2.I53
- Radiation, Nonionizing, see QP82.2.N64
- Radiation, Ultraviolet, see QP82.2.U4
- 82.2.R33 Radio waves

- Phenomena of animal life (General)
  - Influence of the environment (General). Animal ecophysiology. Physiological adaptation
  - Special topics, A-Z -- Continued
  - 82.2.S8 Stress (Physiology)
  - 82.2.T4 Temperature
    - Cf. QP82.2.C6, Cold
    - Cf. QP82.2.H4, Heat
    - Cf. QP135, Thermoregulation
  - Traffic and wildlife, see HE5620.W54
  - 82.2.U37 Ultrasonic waves
  - 82.2.U4 Ultraviolet rays
  - 82.2.U45 Underwater physiology
    - Cf. RC1015, Human underwater physiology
  - 82.2.V5 Vibration
  - 82.2.W36 Water pollution
  - Weather, see QP82.2.C5
  - 82.2.W4 Weightlessness
    - Cf. RC1151.W44, Human space physiology
- Developmental physiology
  - Cf. QL971+, Animal fetal development
  - Cf. RG600+, Human fetal development
  - Cf. RJ131+, Children
  - Cf. RJ140+, Adolescents
  - Cf. RJ252, Infants
- 83.8 General works, treatises, and textbooks
- 84 Growth
- 84.4 Puberty
- 84.6 Chronobiology. Periodicity. Biorhythms
  - For special applications, see the field, e.g. T55.3.B56, Industrial safety
- 85 Longevity. Prolongation of life
- 86 Aging. Senescence
  - Cf. QH608, Cell aging
  - Cf. RC580.P7, Progeria
  - Cf. RC952+, Geriatrics
- 87 Death
  - Cf. QH671, Cell death
- Physiology of the tissues (General)
  - Including physical and chemical properties
- 88 General works
- 88.15 Adipose tissues. Brown adipose tissue
  - Cf. QM565, Histology
- 88.2 Bone
- 88.23 Connective tissues
- 88.3 Hair. Fur. Wool
- 88.4 Epithelium
  - Cf. QM561, Histology
- 88.45 Endothelium
  - Cf. QP88.45, Histology
- Muscle, see QP321+
- Nerve, see QP361+

## Physiology of the tissues (General) -- Continued

- 88.5 Skin  
 Cf. QP220+, Skin secretions  
 Cf. QP369+, Skin nerves  
 Cf. QP372.9, Galvanic skin response  
 Cf. QP450+, Cutaneous senses
- 88.6 Teeth  
 Cf. QP149, Mastication
- 89 Transplantation  
 Cf. RD120.6+, Surgery
- 90 Rejuvenation
- 90.2 Regeneration
- 90.4 Homeostasis
- 90.5 Body fluids  
 For cerebrospinal fluid, see QP375  
 For lymph, see QP115  
 For secretions, see QP190+
- 90.6 Osmoregulation
- 90.7 Acid-base equilibrium
- Blood
- 91 General works
- 92 Formation. Hematopoiesis. Bone marrow  
 Composition and chemistry
- 93 General works  
 Coagulation  
 Including fibrin, fibrinogen, thrombin,  
 prothrombin, thromboplastin
- 93.5 General works
- 93.7.A-Z Special factors, A-Z
- 93.7.A58 Antithrombins
- 93.7.P76 Protein C
- 93.7.T45 Thrombomodulin
- Corpuscles and platelets
- 94 General works  
 Leucocytes. White blood cells  
 Cf. QR185.8.L48, Immunology
- 95 General works
- 95.2 Basophils
- 95.3 Eosinophils  
 Cf. QR185.8.E58, Immunology
- 95.4 Granulocytes  
 Cf. QR185.8.G73, Immunology
- 95.5 Lymphocytes  
 Cf. QR185.8.L9, Immunology
- 95.7 Monocytes
- 95.8 Neutrophils  
 Cf. QR185.8.N47, Immunology
- Erythrocytes. Red blood cells
- 96 General works
- 96.5 Hemoglobin  
 Cf. QP99.3.G55, Glycosylated hemoglobin  
 Cf. RC641.7.H35, Hemoglobinopathy
- 96.7 Reticulocytes

## Blood

## Corpuscles and platelets -- Continued

## Platelets

Cf. QR185.8.P58, Immunology

- 97 General works
- 97.5 Megakaryocytes
- 98 Blood groups
- 99 Plasma and serum
- 99.3.A-Z Special constituents, A-Z
- 99.3.A4 Albumin
- 99.3.A45 Alpha macroglobulins
- 99.3.A65 Antithrombins, see QP93.7.A58
- 99.3.B5 Apolipoproteins
- 99.3.C3 Blood sugar
- 99.3.C3 Carbon dioxide
- 99.3.G3 Fibrin and fibrinogen, see QP93.5+
- 99.3.G3 Gases
- 99.3.G55 Cf. RB45.2, Examination of blood gases
- 99.3.H3 Glycosylated hemoglobin
- 99.3.H35 Haptoglobin
- 99.3.H37 Hematin
- 99.3.H4 Hematoblasts
- 99.3.H45 Hemocyanin
- 99.3.H53 Hemoerythrin
- 99.3.L5 Hemoglobin, see QP96.5
- 99.3.L52 High density lipoproteins
- 99.3.L68 Lipids
- 99.3.O6 Lipoproteins
- 99.3.O9 Low density lipoproteins
- 99.3.P5 Oocytin
- 99.3.P7 Oxygen
- 99.3.T72 Pigments
- 99.5.A-Z Platelet activating factor, see QP752.P62
- 99.5.A3 Proteins
- 99.5.E5 Prothrombin, see QP93.5+
- 99.5.H4 Thrombin and thromboplastin, see QP93.5+
- 99.5.S4 Trace elements
- 101 Other special, A-Z
- 101.2 Agglutination
- 101.3 Electrophoresis
- 101.4 Hemolysis
- 103 Sedimentation
- 104 Cardiovascular system. Circulation
- 105 General works, treatises, textbooks
- Periodicals, societies, congresses, serial collections, yearbooks
- Collected works (nonserial)
- History of discovery and ideas on circulation. Harvey
- Juvenile works
- Study and teaching. Research
- Hemodynamics
- Including pressure, velocity, flow, viscosity, etc.
- General works

- Cardiovascular system. Circulation  
 Hemodynamics -- Continued  
 105.15 Rheology  
 105.2 Measurement of pressure  
 105.4 Measurement of flow  
 Systemic system  
 106 General works  
 106.2 Arterial. Aorta  
 106.4 Venous  
 106.6 Microcirculation. Capillaries  
 Special systems  
 107 Pulmonary system  
 108 Coronary system  
 108.5.A-Z Other, A-Z  
 108.5.C4 Cerebral circulation  
 108.5.P45 Peripheral circulation  
 109 Vasomotor control. Baroreflexes  
 110.A-Z Other special topics, A-Z  
 110.A37 Adrenergic receptors  
 110.A7 Artificial circulation  
 110.B5 Blood volume  
 110.C64 Collateral circulation  
 110.R3 Radiation effects  
 110.V34 Vascular endothelium  
 110.V37 Vascular muscle  
 110.V38 Vascular resistance  
 Heart  
 (111) General works  
     see QP111.4  
 111.2 Periodicals, societies, congresses, serial  
     collections, yearbooks  
 111.3 Collected works (nonserial)  
 111.4 General works, treatises, and textbooks  
 111.5 Pictorial works and atlases  
 111.6 Juvenile works  
 Study and teaching. Research  
 112 General works  
     Research techniques  
 112.4 General works  
 112.5.A-Z Special, A-Z  
 112.5.C3 Cardiography  
 112.5.E4 Electrocardiography  
 112.5.E46 Electrophysiology  
 112.5.M33 Magnetocardiography  
 112.5.N83 Nuclear magnetic resonance  
 112.5.R6 Radiography  
 113 Cardiac dynamics  
     Including beat, rate, output, acceleration, rhythm  
 113.2 Myocardium  
     For specific myocardial characteristics, see  
     QP114.A +  
 113.4 Nervous control  
 113.6 Cardiovascular sound



- Heart -- Continued
- 114.A-Z Other special topics, A-Z
  - 114.A32 Adaptation
  - 114.A35 Aging
  - 114.A57 Aortic valve
  - 114.A75 Arrest, Cardiac
  - Cardiac arrest, see QP114.A75
  - Cardiac membranes, see QP114.M46
  - Cardiogenic reflexes
  - Cells
  - Chemical effects
  - Cold, see QP114.H94
  - Conduction system
  - Diastole
  - Dilatation
  - Endocardium
  - Exercise effects
  - Heart cells, see QP114.C44
  - Heart membranes, see QP114.M46
  - Hormone control
  - Hypothermia. Cold
  - Isolation. Survival
  - Lymphatics
  - Mechanical properties
  - Membranes
  - Metabolism
  - Molecular biology
  - Radiation effects
  - Receptors
  - Reflexes, Cardiogenic, see QP114.C37
  - Regeneration
  - Lymph and lymphatic system
    - Cf. QP114.L94, Heart lymphatics
  - Respiration. Respiratory organs
    - Cf. QP177, Oxygen and metabolism
    - Cf. RA782, Breathing and exercises
  - Periodicals, societies, congresses, serial collections, yearbooks
  - General works, treatises, and textbooks
  - Regulation of respiration
  - Cough
  - Pulmonary gas exchange
  - Trachea
  - Thermoregulation. Animal heat. Body temperature
    - Cf. QP82.2.T4, Ambient temperature
  - Appetite
  - Hunger and thirst
    - Cf. RC620+, Deficiency diseases
  - General works
  - Hunger
    - General works
  - Starvation
  - Thirst

- Nutrition  
 Cf. RA784, Personal hygiene  
 Cf. RG559, Pregnancy  
 Cf. RM214+, Diet therapy  
 Cf. SF94.5+, Animal culture. Feeding and feeds  
 Cf. TX551+, Home economics
- 141.A1 Periodicals, societies, congresses, serial collections, yearbooks
- 141.A2-Z General works, treatises, and textbooks  
 Study and teaching. Research
- 143 General works  
 Research techniques
- 143.4 General works
- 143.5.A-Z Special, A-Z
- 143.5.A58 Anthropometric assessment
- 143.5.R33 Radioactive tracers
- 143.5.S73 Stable isotope tracers
- 143.7 Nutrient interactions
- 144.A-Z Other special topics, A-Z
- 144.B48 Beverages  
 Dairy products, see QP144.M54
- 144.F52 Fiber
- 144.F56 Fish
- 144.G45 Genetics
- 144.M54 Milk. Dairy products
- 144.O44 Oilseeds  
 Including individual oilseeds
- 144.V44 Vegetables
- 145 Physiology of the digestive tract. Digestion  
 General works  
 Special organs  
 Mouth. Pharynx. Esophagus  
 Cf. QP88.6, Teeth  
 Cf. QP188.S2, Salivary glands
- 146 General works
- 147 Ingestion. Eating
- 148 Deglutition
- 149 Mastication
- 150 Drinking
- 151 Stomach  
 Cf. QP193, Gastric juice
- 156 Intestines
- 157 Peritoneum. Mesentery and omentum
- 159 Feces
- 165 Absorption  
 Metabolism  
 Cf. QH634.5, Cell metabolism
- 171 General works
- 176 Energy metabolism
- 177 Relation of oxygen to metabolism  
 Including oxidation, anoxemia, etc.
- 180 Gastrointestinal motility

- Nutrition -- Continued
- 185 Liver. Gallbladder  
Cf. QP197, Bile
- 185.3 Bile ducts
- Glands
- 186 General works  
Endocrinology. Endocrine glands  
Cf. QP252+, Reproductive endocrinology  
Cf. QP356.4, Neuroendocrinology  
Cf. RC648+, Endocrine diseases
- 187.A1 Periodicals, societies, congresses, serial  
collections, yearbooks
- 187.A4-Z General works, treatises, and textbooks
- 187.3.A-Z Special topics, A-Z
- 187.3.A28 Adaptation
- 187.3.A34 Aging
- 187.3.C44 Cellular control mechanisms
- 187.3.D38 Data processing
- 187.3.M36 Mathematical models
- 187.3.M64 Molecular endocrinology
- 187.3.S42 Second messengers
- 187.5 Endocrine genetics
- 187.6 Developmental endocrinology
- Exocrine glands
- 187.7.A1 Periodicals, societies, congresses, serial  
collections, yearbooks
- 187.7.A4-Z General works, treatises, and textbooks
- 188.A-Z Special glands, A-Z
- 188.A28 Adrenal cortex
- 188.A3 Adrenal glands
- 188.A33 Adrenal medulla
- 188.A6 Aortic paraganglia
- 188.C35 Chromaffin cells
- 188.H88 Hypothalamic-pituitary-adrenal axis
- 188.H9 Hypothalamo-hypophyseal system  
Cf. QP188.P58, Pituitary gland  
Cf. QP356.4, Neuroendocrinology  
Cf. QP383.7+, Hypothalamus
- Islands of Langerhans, see QP188.P26
- 188.M3 Mammary glands  
Cf. QP246, Milk
- 188.P26 Pancreas. Islands of Langerhans  
Cf. QP195, Pancreatic juice
- 188.P3 Parathyroid gland
- 188.P55 Pineal body
- 188.P58 Pituitary gland  
Cf. QP188.H9, Hypothalamo-hypophyseal system
- 188.S2 Salivary glands  
Cf. QP191, Saliva
- 188.S26 Salt glands
- 188.S43 Sebaceous glands  
Cf. QP222, Sebum
- 188.S7 Spleen

- Glands
- Special glands, A-Z -- Continued
- 188.S9 Sweat glands  
Cf. QP221, Sweat
- 188.T4 Tear glands. Lacrimal organs  
Cf. QP231, Tears
- 188.T5 Thymus gland
- 188.T54 Thyroid gland
- Secretions
- 190 General works, treatises, and textbooks
- Digestive organs and glands secretions
- 190.7 General works, treatises, and textbooks
- 191 Saliva
- 193 Gastric juice  
Cf. QP552.G35, Gastric intrinsic factor
- 195 Pancreatic juice
- 197 Bile  
Cf. QP671.B5, Bile pigments  
Cf. QP752.B54, Bile acids
- 211 Urinary organs secretions. Urine
- 215 Mucous membrane secretions. Mucus
- Skin secretions
- 220 General works, treatises, and textbooks
- 221 Sweat
- 222 Sebum
- 231 Lacrimal organ secretions. Tears
- Other
- 235 Venom
- 246 Milk
- 246.5 Synovial fluid
- Urinary and reproductive organs
- 247 General works
- Urinary organs
- Cf. QP211, Urine
- 248 General works
- 249 Kidneys
- 250 Ureters
- 250.5 Bladder
- 250.8 Urethra
- Reproduction. Physiology of sex
- Cf. HQ31+, Sex instruction
- Cf. QP81.6, Sexual orientation. Homosexuality
- Cf. RA788, Sex hygiene
- 251 General works, treatises, and textbooks
- 251.5 Juvenile works
- Reproductive endocrinology
- Cf. RG159+, Endocrine gynecology
- Cf. RG558.5, Obstetrical endocrinology
- Cf. RG616, Fetus
- 252 General works
- 252.5 Reproductive immunology  
Cf. RG557, Obstetrics
- Male sex physiology

- Urinary and reproductive organs
  - Reproduction. Physiology of sex
    - Male sex physiology -- Continued
      - 253 General works, treatises, and textbooks
      - 255 Testes and semen
        - Cf. QL966, Spermatogenesis
    - 257 Accessory male organs
    - Female sex physiology
      - 259 General works, treatises, and textbooks
      - 261 Ovary and ovulation
        - Cf. QL965, Oogenesis
      - 262 Uterus
      - 263 Menstruation
        - Cf. RJ140+, Physiology of adolescents
      - 265 Accessory female organs
      - 267 Hermaphroditism
      - 273 Fertilization. Fecundation
        - For fertility, see QP251
      - 275 Ovum implantation
      - 277 Physiology of the embryo
        - Cf. QL951+, Embryology (Zoology)
        - Cf. QM601+, Human embryology
        - Cf. RG610+, Human fetus
      - 278 Sex differentiation
      - 278.5 Sex determination
        - Cf. QH600.5, Sex chromosomes
        - Cf. RG566, Determination of sex during pregnancy
      - 279 Sex preselection
      - 280 Viviparity. Ovoviviparity
      - 281 Gestation
        - Cf. RG499.2+, Obstetrics
      - 285 Parturition
        - Cf. RG651+, Labor
    - Musculoskeletal system. Movements
      - Including physiology of exercise
      - Cf. GN231, Physical anthropology
      - Cf. RC1235+, Physiology of sports
    - 301 General works, treatises, and textbooks
    - 303 Mechanics. Kinesiology
    - 306 Voice and speech. Larynx
      - Cf. BF463.S64, Speech perception
      - Cf. MT821, Voice culture
      - Cf. QM255, Larynx anatomy
      - Cf. RC280.T5, Laryngeal tumors
      - Cf. RC423+, Speech disorders
      - Cf. RF510+, Laryngeal diseases
      - Cf. TK7895.S65, Speech recognition systems
  - 309 Work physiology
  - 310.A-Z Other special movements, A-Z
    - 310.C5 Ciliary motion
    - 310.C55 Climbing
    - 310.D35 Dancing

- Musculoskeletal system. Movements  
 Other special movements, A-Z -- Continued
- 310.F5  
 (310.H36) Deglutition, see QP148
  - Flight
  - Hand movements  
 see QP334
  - (310.H43) Head movements  
 see QP325
  - Ingestion, see QP147
  - 310.I7 Irritability
  - Mastication, see QP149
  - 310.P5 Phototropism
  - 310.R45 Rhythmic movements
  - 310.R85 Running
  - (310.S65) Spinal movements  
 see QP330
  - 310.S77 Stretching
  - 310.S95 Swimming
  - 310.T9 Typewriting
  - 310.W3 Walking
  - 310.W7 Writing
  - 310.3 Posture
  - 310.5 Hypokinesia. Inactivity
  - 311 Miscellany and curiosa
  - Muscle  
 Cf. QP113.2, Myocardium
  - 321 General works
  - 321.5 Smooth muscle  
 Cf. QP110.V37, Vascular muscle
  - 322 Sphincters
  - By region
  - Head and neck
  - 325 General works
  - 327 Face
  - 330 Spine
  - Upper extremities
  - 333 General works
  - 334 Hand
  - Lower extremities
  - 335 General works
  - 336 Foot
  - 341 Electrophysiology  
 Cf. QL639.1, Fishes  
 Cf. QP372.9, Galvanic skin response  
 Cf. QP447.5, Electroreceptors
  - 345 Magnetic field generation
  - Neurophysiology and neuropsychology
  - 351 Periodicals, societies, congresses, serial  
 collections, yearbooks
  - 352 Collected works (nonserial)
  - 352.5 Dictionaries and encyclopedias
  - 353 History
  - 354 Early works through 1800

## Neurophysiology and neuropsychology -- Continued

- General works, treatises, and textbooks
- 355 1801-1969
- 355.2 1970-
- 356 Special aspects of the subject as a whole
- 356.15 Comparative neurobiology
- 356.2 Molecular neurobiology
- 356.22 Neurogenetics
- 356.25 Developmental neurophysiology
- 356.3 Neurochemistry. Brain chemistry
- 356.4 Neuroendocrinology
  - Cf. QP188.H9, Hypothalamo-hypophyseal system
- 356.45 Psychoneuroendocrinology
- 356.47 Neuroimmunology
- 356.5 Radiation effects on the nervous system
- 357 Laboratory manuals
  - Cf. BF79, Psychology laboratory manuals
- 357.5 Data processing
- 359 Miscellany and curiosa
- Neuropsychology. Physiological psychology.
  - Psychophysiology
    - Cf. BF1+, Psychology
- 360 General works
- 360.5 Cognitive neuroscience
- Nervous system
  - 361 General works, treatises, and textbooks
  - 361.5 Juvenile works
  - 363 Miscellaneous general functions
    - Including excitation, impulse propagation, etc.
  - 363.2 Neuroglia
  - 363.3 Neural circuitry. Neural networks
  - 363.5 Neurogenesis. Developmental neurobiology
  - 364 Synapses
  - 364.5 Neural transmission
  - 364.7 Neurotransmitters. Neurotransmitter receptors
  - 365 Inhibition (General)
  - 365.2 Sensitization
  - Peripheral nervous system
    - 365.5 General works
      - Cerebrospinal nerves
        - 366 Cranial nerves
        - 367 Spinal nerves
    - Autonomic nervous system
      - 368 General works
      - 368.5 Sympathetic nervous system
      - 368.7 Parasympathetic nervous system
      - 368.8 Autonomic ganglia. Paraganglia
    - Somatic nervous system. Muscle and skin nerves
      - 369 General works
      - 369.5 Neuromuscular transmission. Myoneural junction
  - Central nervous system
    - 370 General works
    - 370.5 Pyramidal tract. Extrapyramidal tracts

- Neurophysiology and neuropsychology  
 Nervous system  
 Central nervous system -- Continued
- 371 Spinal cord  
 Reflexes  
   Cf. QP416, Conditioned response
- 372 General works  
 372.5 Stretch reflex  
 372.6 Startle reflex  
 372.8 Visceral reflex  
 372.9 Galvanic skin response  
 (374) Other special topics (not A-Z)  
 375 Cerebrospinal fluid  
 375.5 Blood-brain barrier. Choroid plexus
- Brain  
   Cf. QP108.5.C4, Cerebral circulation  
   Cf. QP356.3, Neurochemistry
- 376 General works  
 376.5 Electroencephalography  
 Brain stem
- 376.8 General works  
 377 Medulla oblongata  
 377.5 Pons Varolii  
 Midbrain. Mesencephalon
- 378 General works  
 378.3 Substantia nigra  
 378.4 Periaqueductal gray matter  
 379 Cerebellum
- Cerebrum. Cerebral hemispheres  
 General works  
 Special lobes, A-Z
- 381 Frontal  
 382.A-Z Occipital  
 382.F7 Parietal  
 382.O22 Temporal  
 382.P3 Corpus callosum  
 382.T4 Cortex
- 382.2 General works  
 383 Neocortex  
 383.12 Sensorimotor cortex  
 383.15 Prefrontal cortex  
 383.17 Limbic system  
 383.2 Hippocampus  
 383.25 Basal ganglia
- 383.3 General works  
 383.5 Thalamus. Optic thalamus  
 383.6 Claustrum  
 Hypothalamus  
   Cf. QP188.H9, Hypothalamo-hypophyseal system
- 383.7 General works  
 383.8 Suprachiasmatic nucleus  
 383.9 Corpus striatum



- Neurophysiology and neuropsychology  
 Nervous system  
 Central nervous system  
 Brain -- Continued  
 Localization of functions  
 385 General works  
 385.5 Cerebral dominance  
 388 Brain stimulation techniques  
 Time relations of central processes, reaction  
 time, etc, see BF317  
 Association of ideas, see BF365 +  
 395 Higher nervous activity  
 396 Information processing  
 398 Intellect  
 Cf. BF431 +, Psychology  
 399 Language. Speech  
 Cf. BF455 +, Psychology  
 Cf. QP306, Speech  
 401 Emotions. Pleasure and pain  
 Cf. BF511, Psychology  
 402 Personality  
 405 Attention and volition  
 406 Memory  
 Cf. BD181.7, Philosophy  
 Cf. BF370 +, Psychology  
 408 Learning  
 Cf. BF318, Psychology  
 Cf. LB1060 +, Education  
 409 Motivation  
 Cf. BF501 +, Psychology  
 411 Consciousness, subconsciousness, and  
 unconsciousness  
 416 Conditioned response  
 421 Fatigue  
 Cf. BF482, Psychology  
 Cf. QP321 +, Muscle  
 Sleep. Hypnotic conditions, etc.  
 425 General works  
 426 Dreaming  
 Cf. BF1074 +, Parapsychology  
 427 Napping  
 430 Other special topics (not A-Z)  
 Senses. Sensation. Sense organs  
 Cf. BF231 +, Psychology  
 Cf. QP137 +, Hunger and thirst  
 431 General works, treatises, and textbooks  
 434 Juvenile works  
 435 General special  
 Perceptual process  
 441 General works

- Neurophysiology and neuropsychology  
 Senses. Sensation. Sense organs  
 Perceptual process -- Continued
- 443 Space  
 Including orientation  
 Cf. QP471 +, Equilibrium  
 Cf. QP491 +, Visual space perception
- 445 Time
- 447 Sensory receptors  
 General works
- 447.5 Electroreceptors
- Special senses
- Somesthesia
- 448 General works  
 Cutaneous senses
- 450 General works
- 451 Touch
- 451.2 Pressure
- 451.4 Pain
- 451.6 Temperature
- 454 Proprioception. Sense of movement. Muscular  
 sense
- Chemical senses. Chemoreceptors
- 455 General works
- 456 Taste
- 458 Smell
- Hearing. Physiological acoustics  
 Cf. ML3820 +, Physiology of music  
 Cf. QC221 +, Sound (Physics)
- 460 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 461 General works, treatises, and textbooks
- 462 Popular works
- 462.2 Juvenile works
- 463 Limits of hearing
- (464) Speech perception  
 see BF463.S64
- 465 Pitch and tone perception and discrimination
- 467 Rhythm. Melody
- 469 Localization of sound
- 469.3 Bone conduction
- Equilibrium. Labyrinths of the ear
- 471 General works
- 471.2 Cochlea
- Vision. Physiological optics  
 Cf. RE1 +, Ophthalmology
- 474 Periodicals, societies, congresses, serial  
 collections, yearbooks
- 475 General works, treatises, and textbooks
- 475.5 Popular works
- 475.7 Juvenile works
- 476 Eyeball  
 General works

- Neurophysiology and neuropsychology  
 Senses. Sensation. Sense organs  
 Special senses  
 Vision. Physiological optics  
 Eyeball -- Continued  
 476.3 Intraocular pressure  
 477 Accommodation. Refraction  
 477.5 Movement  
 477.8 Cornea  
 478 Lens  
 479 Retina  
 Light perception and discrimination  
 481 General works  
 482 Night vision  
 482.5 After-images  
 483 Color vision  
 Binocular vision  
 487 General works  
 487.5 Binocular rivalry  
 Visual space perception  
 491 General works  
 492 Form, solidity, size  
 493 Movement  
 494 Peripheral vision  
 495 Optical illusions
- Animal biochemistry  
 Cf. QH345, General biochemistry and plants and animals  
 Cf. QR148, Microbiological chemistry  
 Cf. RB112.5, Clinical biochemistry  
 Cf. RS400+, Pharmaceutical chemistry  
 For works limited to chemical aspects of biological materials, see QD415+
- 501 Periodicals, societies, congresses, serial collections, yearbooks  
 509 Collected works (nonserial)  
 History  
 511 General works  
 511.5.A-Z By region or country, A-Z  
 Biography  
 511.7 Collective  
 511.8.A-Z Individual, A-Z  
 512 Dictionaries and encyclopedias  
 513 Early works through 1800  
 General works, treatises, and textbooks  
 514 1801-1969  
 514.2 1970-  
 517.A-Z Special topics, A-Z  
 517.B42 Binding sites  
 517.B44 Bioactive compounds  
 517.B48 Biochemical templates  
 517.B49 Bioconjugates  
 517.B5 Biodegradation

- Animal biochemistry  
 Special topics, A-Z -- Continued
- 517.B53 Bioelectrochemistry  
 517.B54 Bioenergetics  
 Bioluminescence, see QH641  
 517.B56 Biomimetics  
 517.B57 Biosynthesis  
 Biothermodynamics, see QP517.T48  
 517.B58 Biotransformation  
 517.C45 Cellular signal transduction  
 517.C49 Charge transfer in biology  
 517.C54 Chemiluminescence  
 517.C57 Chirality  
 Computer simulation, see QP517.M3  
 517.C66 Cooperative binding  
 517.C78 Cryobiochemistry  
 517.D57 Dissociation  
 517.F66 Fossil biomolecules  
 517.H93 Hydrogen bonding  
 517.L54 Ligand binding  
 517.M3 Mathematical models. Computer simulation  
 517.M65 Molecular dynamics  
 517.M66 Molecular orbitals  
 517.M67 Molecular recognition  
 517.P45 Photobiochemistry  
 517.P76 Protein binding  
 517.Q34 Quantum biochemistry  
 517.R4 Reaction rates  
 517.R48 Rheology  
 Signal transduction, Cellular, see QP517.C45  
 517.S83 Stereochemistry  
 517.S85 Structure-activity relationships  
     Cf. RM301.42, Pharmacology  
 517.S87 Surface chemistry  
 Templates, Biochemical, see QP517.B48  
 517.T48 Thermodynamics  
 517.5 Biological chemistry as a profession  
 Study and teaching. Research
- 518 General works  
 518.3 Outlines, syllabi  
 518.5 Problems, exercises, examinations  
 519 Laboratory manuals
- Technique. Analytical biochemistry  
 519.7 General works  
 519.9.A-Z Special methods, A-Z  
 519.9.A35 Affinity chromatography  
 519.9.A36 Affinity electrophoresis  
 519.9.A37 Affinity labeling  
 519.9.A94 Autoradiography  
 519.9.B55 Bioluminescence assay  
 519.9.C34 Calorimetry  
 519.9.C36 Capillary electrophoresis  
 519.9.C37 Capillary liquid chromatography

## Animal biochemistry

## Technique. Analytical biochemistry

## Special methods, A-Z -- Continued

- 519.9.C44 Centrifugation
- 519.9.C47 Centrifugation, Density gradient, see QP519.9.D45  
 Chromatography  
 Chromatography, Affinity, see QP519.9.A35  
 Chromatography, Countercurrent, see QP519.9.C68  
 Chromatography, Gas, see QP519.9.G37  
 Chromatography, Gel permeation, see QP519.9.G44  
 Chromatography, High performance liquid, see QP519.9.H53  
 Chromatography, Ion exchange, see QP519.9.I54  
 Chromatography, Liquid, see QP519.9.L55  
 Chromatography, Thin layer, see QP519.9.T55
- 519.9.C57 Circular dichroism
- 519.9.C68 Countercurrent chromatography
- 519.9.D45 Density gradient centrifugation
- 519.9.E42 Electrochemical analysis
- 519.9.E43 Electrodes, Ion selective
- 519.9.E433 Electron paramagnetic resonance spectroscopy
- 519.9.E4333 Electron probe microanalysis
- 519.9.E434 Electrophoresis
- 519.9.E46 Enzymatic analysis
- 519.9.E48 Enzyme-linked immunosorbent assay
- 519.9.F52 Flash photolysis
- 519.9.F55 Flow injection analysis
- 519.9.F56 Fluorescence spectroscopy. Fluorescent probes
- 519.9.F58 Fluorimetry
- 519.9.G37 Gas chromatography
- 519.9.G42 Gel electrophoresis
- 519.9.G44 Gel permeation chromatography
- 519.9.H53 High performance liquid chromatography
- 519.9.I42 Immunoassay
- 519.9.I43 Immunoblotting
- 519.9.I44 Immunoblotting, Western, see QP519.9.W47
- 519.9.I48 Immunoelectrophoresis, see QR187.I47
- 519.9.I54 Immunoenzyme technique
- 519.9.I8 Infrared spectroscopy
- 519.9.I84 Ion exchange chromatography
- 519.9.L37 Isoelectric focusing
- 519.9.L37 Isotachopheresis
- 519.9.L55 Laser spectroscopy
- 519.9.L82 Liquid chromatography
- 519.9.L84 Liquid chromatography, High performance, see QP519.9.H53
- 519.9.M3 Luminescence immunoassay
- 519.9.M64 Luminescence spectroscopy
- 519.9.N8 Mass spectrometry
- 519.9.N83 Molecular probes
- 519.9.P48 Nuclear activation analysis
- Nuclear magnetic resonance spectroscopy
- Photoaffinity labeling

- Animal biochemistry  
 Technique. Analytical biochemistry  
 Special methods, A-Z -- Continued  
 Photolysis, Flash, see QP519.9.F52  
 Positron emission tomography  
 Pulsed-field gel electrophoresis  
 Radioactivation analysis, see QP519.9.N8  
 Radioactive tracers  
 Radioimmunoassay  
 Radioligand assay  
 Raman spectroscopy  
 Separation (Technology)  
 Spectrophotometry  
 Spectroscopy  
 Spectroscopy, Electron paramagnetic resonance, see  
 QP519.9.E433  
 Spectroscopy, Fluorescence, see QP519.9.F56  
 Spectroscopy, Laser, see QP519.9.L37  
 Spectroscopy, Nuclear magnetic resonance, see  
 QP519.9.N83  
 Spectroscopy, Raman, see QP519.9.R36  
 Spectroscopy, X-ray, see QP519.9.X73  
 Thin layer chromatography  
 Time-resolved spectroscopy  
 Two-dimensional electrophoresis  
 Ultracentrifugation  
 Ultratrace analysis  
 Western immunoblotting  
 X-ray crystallography  
 X-ray spectroscopy
- 519.9.P68  
 519.9.P84  
 519.9.R28  
 519.9.R3  
 519.9.R34  
 519.9.R36  
 519.9.S45  
 519.9.S58  
 519.9.S6  
 519.9.T55  
 519.9.T59  
 519.9.T84  
 519.9.U47  
 519.9.U48  
 519.9.W47  
 519.9.X72  
 519.9.X73  
 520  
 521  
 525  
 527  
 529  
 529.5  
 531  
 532  
 533  
 534  
 535.A-Z  
 550  
 551  
 552.A-Z
- Handbooks, tables, formulas, etc.  
 Miscellany and curiosa  
 Special substances  
 Colloids  
 Radicals  
 Xenobiotics  
 General works  
 Plant compounds  
 Inorganic substances  
 General works, treatises, and textbooks  
 Metals  
 Minerals  
 Trace elements  
 Cf. TX553.T7, Food value  
 Elements and their inorganic compounds. By  
 chemical symbol of principal element, A-Z  
 (Table Q1)  
 Organic substances  
 General works, treatises, and textbooks  
 Proteins, amino acids, etc.  
 General works, treatises, and textbooks  
 Special proteins (other than amino acids,  
 enzymes, or hormones), A-Z

- Animal biochemistry
    - Special substances
      - Organic substances
        - Proteins, amino acids, etc.
          - Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued
- 552.A27 Actin
- 552.A32 Actomyosin
- 552.A43 Albumin
- 552.A436 Allosteric proteins
- 552.A439 Alpha fetoproteins
- 552.A45 Amyloid
- Antigens and antibodies, see QR186.5+
- Apolipoproteins, see QP99.3.A65
- Avidin
- C-reactive protein
- 552.C17 Calcitonin gene-related peptide
- 552.C22 Calcium-binding proteins
- 552.C24 Calmodulin
- 552.C28 Calreticulin
- 552.C3 Carnosine
- 552.C34 Carrier proteins
- 552.C35 Casein
- 552.C42 Cell adhesion molecules
- 552.C45 Cerebrospinal fluid proteins
- 552.C56 Clusterin
- 552.C6 Collagen
- 552.C64 Copper proteins
- 552.C94 Cytochromes
- 552.C96 Cytoskeletal proteins
- 552.E4 Elastin
- 552.E53 Endorphins
- 552.E54 Endothelins
- 552.E55 Enkephalins
- 552.E59 Epidermal growth factor
- 552.E95 Extracellular matrix proteins
- 552.F37 Fatty acid-binding proteins
- 552.F47 Ferritin
- Fetoproteins, Alpha, see QP552.A439
- Fibrinogen, see QP93.5+
- Fibroblast growth factors
- Fibronectins
- Flavoproteins
- 552.F5 G proteins
- 552.F53 Gamma globulin
- 552.F54 Gastric intrinsic factor
- 552.G16 Gelatin
- 552.G3 Globin
- 552.G35 Globulin
- 552.G4 Glutathione
- 552.G5 Glycoproteins
- 552.G55 Growth factors
- 552.G58
- 552.G59
- 552.G76

- Animal biochemistry  
 Special substances  
 Organic substances  
 Proteins, amino acids, etc.  
 Special proteins (other than  
 amino acids, enzymes,  
 or hormones), A-Z -- Continued
- 552.H3 Haptoglobin  
 552.H43 Heat shock proteins  
 Hemoglobin, see QP96.5  
 552.H46 Hemoproteins  
 552.H48 Hepatocyte growth factor  
 552.H5 Histones  
 552.H9 Hypoglycin  
 Immunoglobulins, see QR186.7 +  
 552.I54 Insulin-like growth factor-binding proteins  
 552.I55 Integrins  
 552.I56 Interphotoreceptor retinoid-binding protein  
 Intrinsic factor, see QP552.G35  
 552.I67 Iron proteins  
 552.I7 Iron sulphur proteins  
 552.K4 Keratin  
 552.K5 Kinins  
 552.L3 Lactalbumin  
 552.L345 Lactoferrins  
 552.L35 Lactoglobulin  
 552.L42 Lectins  
 552.L48 Lipocortins  
 552.L5 Lipoproteins  
 552.M44 Membrane proteins  
 552.M46 Metalloproteins  
 552.M47 Metallothionein  
 552.M54 Milk proteins  
 552.M64 Molecular chaperones  
 552.M8 Mucins  
 552.M85 Muscle proteins  
 552.M88 Myelin proteins. Myelin basic protein  
 552.M9 Myohemoglobin  
 552.M93 Myosin  
 552.N36 Nerve growth factor  
 552.N37 Nerve proteins  
 552.N38 Neuropeptide Y  
 552.N39 Neuropeptides  
 552.N4 Neurophysins  
 552.N62 Nonhistone chromosomal proteins  
 552.N67 Notch proteins  
 552.N82 Nucleopeptides  
 Nucleoproteins, see QP625.N87  
 552.O65 Opioid peptides  
 552.O77 Osteopontin  
 552.O94 Ovomuroid  
 552.P4 Peptides  
 552.P45 Peptones



- Animal biochemistry
  - Special substances
    - Organic substances
      - Proteins, amino acids, etc.
        - Special proteins (other than amino acids, enzymes, or hormones), A-Z -- Continued
          - 552.P5 Phosphoproteins
          - 552.P56 Plasma proteins, see QP99.3.P7
          - 552.P6 Platelet-derived growth factor
          - 552.P65 Polypeptides
          - 552.P7 Pregnancy proteins
          - Protamines
          - Protectins, see QP552.L42
          - 552.P73 Proteoglycans
          - Prothrombin, see QP93.5+
          - 552.Q55 Quinoproteins
          - Receptor-specific proteins, see QP552.L42
          - 552.S35 Seminal proteins
          - 552.S4 Sericin
          - 552.S65 Serum albumin, see QP99.3.A4
          - 552.S74 Somatomedin
          - 552.S9 Steroid-binding proteins
          - Substance P
          - Sulphur iron proteins, see QP552.I7
          - 552.T33 Tachykinins
          - 552.T43 Thaumatin
          - 552.T45 Thioredoxin
          - 552.T47 Thrombin, see QP93.5+
          - 552.T5 Thrombospondins
          - 552.T55 Thyroglobulin
          - 552.T68 Thyroprotein
          - 552.T7 Transcription factors
          - 552.T72 Transferrin
          - 552.T82 Transforming growth factors
          - 552.T83 Tubulins
          - 552.U24 Tuftsin
          - 552.V58 Ubiquitin
          - 552.Z55 Vitamin K-dependent proteins
          - Zinc proteins
- Amino acids
  - 561 General works, treatises, and textbooks
  - 562.A-Z Constituents of proteins, A-Z
    - 562.A7 Arginine
    - 562.A8 Aspartic acid
    - 562.B73 Branched chain amino acids
    - 562.C9 Cystine
    - 562.G5 Glutamic acid
    - 562.G55 Glutamine
    - 562.G58 Glycine
    - 562.H5 Glycocoll, see QP562.G58
    - 562.L4 Histidine
    - Leucine

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Amino acids

## Constituents of proteins, A-Z -- Continued

- 562.L8 Lysine
- 562.M4 Methionine
- 562.P5 Phenylalanine
- 562.P7 Proline
- 562.T5 Threonine
- 562.T7 Tryptophan
- 562.T9 Tyrosine
- 562.V3 Valine
- 563.A-Z Other, A-Z
- 563.A3 Adenosylmethionine
- 563.A48 Aminobutyric acid
- 563.A5 Aminocapric acid
- 563.C5 Citrulline
- 563.D5 Dihydroxyphenylalanine
- 563.D66 Dopamine
- 563.G32 DOPA, see QP563.D5
- GABA
- Gamma-aminobutyric acid, see QP563.G32
- 563.K33 Kainic acid
- 563.K9 Kynurenine
- 563.O7 Ornithine
- 563.T5 Thyroxine

## Hormones

- 571 General works, treatises, and textbooks
- 571.5 Hormone inhibition
- 571.7 Hormone receptors
- 572.A-Z Special, A-Z
- 572.A27 ACTH, see QP572.A35
- 572.A3 Adrenaline
- 572.A35 Adrenocortical hormones
- 572.A4 Adrenocorticotrophic hormone
- 572.A5 Aldosterone
- 572.A54 Androgens
- 572.A82 Angiotensin
- 572.C3 Atrial natriuretic peptides
- 572.C33 Calcitonin
- 572.C36 Calcium regulating hormones
- 572.C47 Catechol estrogens
- 572.C5 Chalones
- 572.C53 Cholecystokinin
- 572.C6 Chorionic gonadotropins
- 572.C62 Corticosterone
- 572.C65 Corticotropin releasing hormone
- 572.E25 Cortisone
- 572.E27 Ecdysone
- 572.E8 Ecdysteroids
- Estradiol

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Hormones

## Special, A-Z -- Continued

572.E85

Estrogen

572.F6

Estrogens, Catechol, see QP572.C36

572.G3

Follicle-stimulating hormone

572.G35

Gastrin

572.G5

Gastrointestinal hormones

572.G54

Glucagon

572.G58

Glucocorticoids

572.G6

Glycoprotein hormones

Gonadotropin

572.G75

Growth hormone, see QP572.S6

572.H85

Growth hormone releasing factor

572.H9

Hydroxyprogesterone

572.I47

Hypothalamic hormones

572.I5

Inhibin

Insulin

Intermedin, see QP572.M75

Lactogenic hormones, see QP572.P74

572.L5

Lipocaic

572.L56

Lipotropin

572.L84

Luteinizing hormone

572.L85

Luteinizing hormone releasing hormone

572.M44

Melatonin

572.M66

Motilin

572.M75

MSH

572.N47

Neurotensin

572.N6

Norepinephrine

572.O9

Oxytocin

572.P3

Parathyroid hormone

572.P33

Parathyroid hormone-related protein

572.P4

Peptide hormones

572.P47

Pheromones

572.P5

Pituitary hormone releasing factors

572.P52

Pituitary hormones

572.P57

Placental hormones

572.P7

Progesterone

572.P74

Prolactin

572.P75

Prosecretin

572.P77

Protein hormones

572.R46

Relaxin

572.S34

Secretin

572.S4

Sex hormones

572.S59

Somatostatin

572.S6

Somatotropin

572.S7

Steroid hormones

572.T4

Testosterone

572.T46

Thymic hormones

572.T5

Thyroid hormones

- Animal biochemistry
    - Special substances
      - Organic substances
        - Proteins, amino acids, etc.
          - Hormones
            - Special, A-Z -- Continued
              - Thyrotropin
              - Thyrotropin releasing factor
              - Vasoactive intestinal peptides
              - Vasopressin
    - Enzymes
      - Cf. QK896, Plant enzymes
      - General works, treatises, and textbooks
      - Isoenzymes
      - Enzyme kinetics
      - Enzyme regulation
        - For works on regulation of individual enzymes or enzyme classes, see QP601.7+
- 601
  - 601.2
  - 601.3
- 601.4
  - 601.45
- 601.5
  - Enzyme inhibition
    - For works on inhibition of individual enzymes or enzyme classes, see QP601.7+
- 601.6
  - Extracellular enzymes
  - Metalloenzymes
- 601.7
  - 601.75.A-Z
    - 601.75.M35
    - 601.75.M64
    - 601.75.Z54
  - 601.8
- 602
  - 603.A-Z
    - 603.A34
    - 603.A35
    - 603.A37
    - 603.A4
  - 603.A8
  - 603.C3
  - 603.C45
  - 603.C85
  - 603.C9
  - 603.D4
  - 603.D5
- Thiamin pyrophosphate-dependent enzymes
- Oxidoreductases
  - General works, treatises, and textbooks
  - Special, A-Z
    - Alcohol dehydrogenase
    - Aldehyde dehydrogenase
    - Alpha-keto acid dehydrogenase
    - Amino acid oxidases
    - Amino oxidase, see QP603.M6
    - Ascorbate oxidase
    - Catalase
    - Catechol oxidase, see QP603.D5
    - Cholesterol hydroxylase
    - Cytochrome c reductase, see QP603.R4
    - Cytochrome oxidase
    - Cytochrome peroxidase
    - Dehydrogenases
    - Diphenol oxidase

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Enzymes

## Oxidoreductases

## Special, A-Z -- Continued

- 603.F47 Ferredoxin-NADP reductase  
 603.G55 Glucose dehydrogenase  
 603.G57 Glucosephosphate dehydrogenase  
 603.H45 Heme oxygenase  
 603.H55 Histaminase  
 603.H88 Hydrogenase  
 603.H9 Hydroxylases  
 603.H92 Hydroxymethylglutaryl coenzyme A  
 reductases  
 603.L33 Lactate dehydrogenase  
 603.L56 Lipxygenases  
 603.M6 Monamine oxidase  
 603.M65 Monooxygenases  
 603.N58 Nitrogenase  
 603.O8 Oxidases  
 603.O85 Oxygenases  
 603.P4 Peroxidase  
 603.P43 Phenol oxidase  
 603.P74 Proline hydroxylase  
 603.P76 Prostaglandin synthase  
 603.P8 Pyruvate oxidase  
 603.R4 Reduced nicotinamide adenine dinucleotide  
 dehydrogenase  
 603.R52 Ribonucleoside diphosphate reductase  
 603.S9 Succinate dehydrogenase  
 603.S94 Superoxide dismutase  
 603.T78 Tryptophan oxygenase  
 Tyraminase, see QP603.M6  
 Tyrosinase, see QP603.P43  
 603.U7 Urate oxidase  
 Uricase, see QP603.U7

## Transferases

## General works, treatises, and textbooks

## Special, A-Z

- 605  
 606.A-Z  
 606.A33 Acetyltransferases  
 606.A43 Aminotransferases  
 606.A8 Aspartate aminotransferase  
 606.C45 Choline acetylase  
 606.C73 Creatine kinase  
 606.D46 Deoxyribonucleate nucleotidyltransferases.  
 DNA polymerases  
 606.F7 Fructokinase  
 606.G5 Glucan phosphorylase  
 606.G57 Glucokinase  
 606.G573 Glucuronosyltransferase  
 606.G58 Glutamic-aspartic transaminase

- Animal biochemistry
  - Special substances
    - Organic substances
      - Proteins, amino acids, etc.
      - Enzymes
        - Transferases
          - Special, A-Z -- Continued
            - 606.G59 Glutathione transferase
            - 606.G592 Glycogen phosphorylase
            - Kinase, Protein, see QP606.P76
            - 606.M48 Methyltransferases
            - 606.P55 Phosphotransferases
            - 606.P76 Protein kinases
            - 606.P78 Protein-tyrosine kinase
            - 606.R48 Reverse transcriptase
            - 606.R53 Ribonucleate nucleotidyltransferases. RNA polymerases
            - Transaminases, see QP606.A43
            - Transglutaminases
            - Uridine diphosphoglucuronosyltransferase
  - Hydrolases
    - General works, treatises, and textbooks
    - Special, A-Z
      - 608 Acetylcholinesterase
      - 609.A-Z Adenosinetriphosphatase
      - 609.A25 Alanine aminopeptidase
      - 609.A3 Alkaline phosphatase
      - 609.A38 Allantoinase
      - 609.A4 Amidases
      - 609.A43 Aminopeptidases
      - 609.A438 Amylase
      - 609.A44 Angiotensin converting enzyme
      - 609.A45 Arginase
      - 609.A53 Arylsulphatases
      - 609.A7 Aspartic proteinases
      - 609.A77 Beta lactamases
      - 609.A86 Calpain
      - 609.B46 Carboxypeptidase
      - 609.C26 Cathepsin
      - 609.C3 Cellulase
      - 609.C35 Cellulose 1,4-beta-cellobiosidase
      - 609.C37 Cholinesterase
      - 609.C38 Chymosin, see QP609.R4
      - 609.C4 Chymotrypsin
      - Coagulase
      - Collagenase
      - Converting enzyme, Angiotensin, see QP609.A53
      - 609.C92 Cyclic nucleotide phosphodiesterases
      - 609.C94 Cysteine proteinases
      - 609.D4 Deoxyribonucleases
      - 609.D48 Dextranase
      - Diastase, see QP609.A45

## Animal biochemistry

## Special substances

## Organic substances

## Proteins, amino acids, etc.

## Enzymes

## Hydrolases

## Special, A-Z -- Continued

- 609.D52 Digestive enzymes  
 609.D54 Dipeptidases  
 609.E38 DNA restriction enzymes, see QP609.R44  
 609.E4 Elastases  
 609.E7 Emulsin  
 609.E8 Erepsin  
 609.F7 Esterases  
 609.G3 Fructofuranosidase  
 609.G38 Fructose diphosphatase, see QP609.H5  
 609.G4 Galactosidase  
 609.G44 Glucose-6-phosphatase  
 609.G45 Glucosidases  
 609.G83 Glycoasparaginase  
 609.H5 Glycosidases  
 609.H8 Guanosine triphosphatase  
 609.K3 Hexosediphosphatase  
 609.L43 Hyaluronidase  
 609.L5 Invertase, see QP609.F7  
 609.L55 Kallikrein  
 609.L9 Lactamases, Beta, see QP609.B46  
 609.N48 Lactase, see QP609.G3  
 609.N78 Lecithinase  
 609.N8 Lipase  
 609.P3 Lipolytic enzymes  
 609.P4 Lysozyme  
 609.P45 Neutral proteinases  
 609.P5 Nucleases  
 609.P52 Nucleosidases  
 609.P53 Papain  
 609.P55 Pectinase, see QP609.P6  
 609.P553 Pepsin  
 609.P56 Peptidases (Exopeptidases)  
 609.P6 Phosphatases  
 609.P75 Phosphatidate phosphatase  
 609.P78 Phosphodiesterase  
 609.P85 Phospholipase  
 609.R38 Phospholipase A2  
 609.R4 Phosphoprotein phosphatases  
 609.R44 Polygalacturonase  
 609.R75 Proteases, see QP609.P78  
 609.R78 Proteinases (Endopeptidases)  
 609.R85 Proteolytic enzymes  
 609.R38 Pullulanase  
 609.R4 Renin  
 609.R44 Rennin  
 609.R44 Restriction enzymes, DNA





- Animal biochemistry  
  Special substances  
    Organic substances  
      Nucleic acids  
        Deoxyribonucleic acids  
          Special topics, A-Z -- Continued  
624.5.D73       DNA probes  
624.5.R33       Radiation effects  
624.5.R48       Replication  
624.5.S26       Satellite DNA  
624.5.S73       Stability  
624.5.S78       Structure  
          DNA-ligand interactions  
624.75.A-Z      Special ligands, A-Z  
624.75          General works, treatises, and textbooks  
624.75.D77      Drugs  
624.75.P74      Proteins  
625.A-Z         Other related substances, A-Z  
625.A25         Adenine nucleotides  
625.A27         Adenosine  
625.A29         Adenosine diphosphate ribose  
625.A3          Adenosinetriphosphate  
625.A35         Adenylic acid  
625.B76         Bromodeoxyuridine  
625.D56         Binucleoside polyphosphates  
625.I54         Inosine  
625.N8          Nuclein  
625.N86         Nucleohistones  
625.N87         Nucleoproteins  
625.N88         Nucleosides  
625.N89         Nucleotides  
625.O45         Oligoadenylates  
625.O47         Oligonucleotides  
625.P74         Pseudouridine  
625.P87         Purine nucleotides  
625.P96         Pyridine nucleotides  
Toxins and antitoxins  
  Cf. QR180+, Immunology  
  Cf. RM278, Immunotherapy  
  General works, treatises, and textbooks  
  Special, A-Z  
631             Bacterial toxins  
632.A-Z         Bombesin  
632.B3          Botulinum toxin  
632.B64         Cytochalasins  
632.B66         Digitoxin  
632.C9          Endotoxins  
632.D54         Insect venoms  
632.E4          Marine toxins. Marine venoms  
632.I57         Microbial toxins  
632.M37         Mycotoxins  
632.M52         Pertussis toxin  
632.M9          Recombinant toxins  
632.P47  
632.R43

- Animal biochemistry  
 Special substances  
 Organic substances  
 Toxins and antitoxins  
 Special, A-Z -- Continued
- 632.S27 Saxitoxin  
 632.S65 Snake toxins. Snake venoms  
 632.T46 Tetrodotoxin  
 632.T75 Trichothecenes  
 632.V46 Venom  
 Cf. QP632.I57, Insect venoms
- Pigments  
 General works, treatises, and textbooks  
 Special, A-Z
- 670 Bile pigments  
 671.A-Z Bilirubin  
 671.B5 Carotenes. Carotin  
 671.B55 Carotenoids. Carotinoids  
 671.C3 Chlorophyll  
 671.C35 Cytochrome b  
 671.C45 Cytochrome c  
 671.C78 Cytochrome P-450  
 671.C8 Cytochromes  
 671.C83 Flavins  
 671.C85 Hematoporphyrin  
 671.F5 Heme  
 671.H4 Iodopsin  
 671.H45 Lipofuscins  
 671.I5 Melanin  
 671.L52 Porphyrins  
 671.M44 Visual pigments  
 671.P6 Xanthopterin  
 671.V5  
 671.X3
- Carbohydrates  
 General works, treatises, and textbooks  
 Special, A-Z
- 701 Agar  
 702.A-Z Aglucones  
 702.A3 Amino sugars  
 702.A35 Amyloses  
 702.A4 Chitin  
 702.A48 Chondroitin sulphate  
 702.C5 Cyclitols  
 702.C55 Deoxyribose  
 702.C8 Fluorocarbohydrates  
 702.D4 Fructans  
 702.F58 Fructose  
 702.F68 Fructose-2,6-bisphosphate  
 702.F7 Galactose  
 702.F73 Glucans  
 702.G3 Glucides  
 702.G5 Glucosamine  
 702.G55 Glucose  
 702.G56 Glucuronic acid  
 702.G57

Animal biochemistry  
 Special substances  
 Organic substances  
 Carbohydrates  
 Special, A-Z -- Continued

702.G572 Glucuronides  
 702.G577 Glycoconjugates  
 702.G58 Glycogen  
 702.G59 Glycosides  
 702.H4 Heparin  
 702.H45 Hexosamines  
 702.H8 Hyaluronic acid  
 Inositol, see QP772.I5  
 Inulin  
 Lactose  
 Mucopolysaccharides  
 Oligosaccharides  
 Pectins  
 Pentoses  
 Peptidoglycans  
 Polysaccharides  
 Sorbitol  
 Starch  
 Sucrose  
 Sugars  
 Xylans  
 Xylitol  
 Xylose

Lipids

Cf. TP676, Chemical technology of animal fats and oils

Cf. TX553.L5, Lipids as a food constituent

General works, treatises, and textbooks

Special, A-Z

751 Acetic acid  
 752.A-Z Androstane  
 752.A25 Arachidonic acid  
 752.A5 Bile acids  
 752.A7 Bile pigments, see QP671.B5  
 752.B54 Cerebrosides  
 752.C4 Cholesterin, see QP752.C5  
 752.C5 Cholesterol  
 752.C53 Cholesterol oxides  
 752.C55 Cholic acid  
 752.C6 Corticosteroids  
 752.C7 Croton oil  
 752.E84 Essential fatty acids  
 752.F3 Fats  
 752.F35 Fatty acids  
 752.F57 Fish oils  
 752.G3 Gangliosides  
 752.G5 Glycerides  
 Glycerin, see QP752.G55

## Animal biochemistry

## Special substances

## Organic substances

## Lipids

## Special, A-Z -- Continued

- 752.G55 Glycerol  
 752.G56 Glycolipids  
 752.G58 Glycosphingolipids  
 752.I8 Isobutyric acid  
 Isopentenoids, see QP752.T47  
 Isoprenoid compounds, see QP752.T47  
 752.L4 Lecithin  
 752.L5 Linoleic acid  
 752.L52 Lipoxins  
 752.L8 Lysolecithin  
 752.L83 Lysophosphatidic acid  
 752.M45 Membrane lipids  
 752.M9 Myelin  
 752.O42 Olive oil  
 752.O44 Omega-3 fatty acids  
 752.O45 Omega-6 fatty acids  
 752.O89 Oxysterols  
 Phosphatides, see QP752.P53  
 752.P52 Phosphoinositides  
 752.P53 Phospholipids  
 752.P62 Platelet activating factor  
 752.P65 Polyketides  
 752.P69 Prostacyclin  
 Prostaglandins, see QP801.P68  
 752.P7 Protagon  
 752.P84 Pulmonary surfactant  
 752.S6 Sphingolipids  
 Steroid hormones, see QP752.S7  
 752.S7 Steroids  
 752.S75 Sterols  
 752.T47 Terpenes. Isopentenoids. Isoprenoid  
 compounds  
 752.T7 Tributyrin  
 752.T74 Triglycerides  
 752.W3 Waxes
- Vitamins  
 771 General works, treatises, and textbooks  
 772.A-Z Special, A-Z  
 Adermine, see QP772.P9  
 772.A4 Aminobenzoic acids  
 Aneurine, see QP772.T5  
 Antihemorrhage vitamin, see QP772.V55  
 Antipernicious anemia vitamin, see QP772.C9  
 Antirickets vitamin, see QP772.V53  
 Antiscurvy vitamin, see QP772.A8  
 Antisterility vitamin, see QP772.T6  
 Antixerophthalmia vitamin, see QP772.V5  
 772.A8 Ascorbic acid. Vitamin C

## Animal biochemistry

## Special substances

## Organic substances

## Vitamins

## Special, A-Z -- Continued

- 772.B5 Bioflavonoids. Vitamin P  
 772.B55 Biotin. Vitamin H  
 772.C3 Carnitine. Vitamin BT  
 772.C5 Choline  
 772.C9 Cyanocobalamine. Vitamin B12  
 772.E74 Ergocalciferol. Vitamin D2  
 772.F37 Fat-soluble vitamins  
 772.F6 Folacin, see QP772.F6  
 772.F6 Folic acid. Vitamin M  
 772.I5 Inositol  
 Niacin, see QP772.N55  
 Niacin amide, see QP772.N5  
 772.N5 Nicotinamide. Vitamin PP  
 772.N55 Nicotinic acid. Niacin  
 Nicotinic acid amide, see QP772.N5  
 772.P3 Pangamic acid. Vitamin B15  
 772.P35 Pantothenic acid. Vitamin B5  
 Pellagra preventive factor, see QP772.N5  
 Pteroylglutamic acid, see QP772.F6  
 772.P9 Pyridoxine. Vitamin B6  
 Retinol, see QP772.V5  
 772.R5 Riboflavin. Vitamin B2  
 772.T5 Thiamine. Vitamin B1  
 772.T6 Tocopherol. Vitamin E  
 772.V5 Vitamin A  
 772.V52 Vitamin B complex  
 Vitamin B1, see QP772.T5  
 Vitamin B2, see QP772.R5  
 Vitamin B5, see QP772.P35  
 Vitamin B6, see QP772.P9  
 Vitamin B12, see QP772.C9  
 Vitamin B15, see QP772.P3  
 Vitamin BT, see QP772.C3  
 Vitamin C, see QP772.A8  
 772.V53 Vitamin D  
 Vitamin D2, see QP772.E74  
 Vitamin E, see QP772.T6  
 Vitamin G, see QP772.R5  
 Vitamin H, see QP772.B55  
 772.V55 Vitamin K  
 Vitamin M, see QP772.F6  
 Vitamin P, see QP772.B5  
 Vitamin PP, see QP772.N5
- Miscellaneous organic substances, A-Z
- 801.A-Z  
 801.A25 Acetone  
 801.A26 Acids  
 801.A3 Alcohol  
 801.A33 Aldehydes

- Animal biochemistry  
   Special substances  
     Organic substances  
       Miscellaneous organic  
         substances, A-Z -- Continued
- |           |                              |
|-----------|------------------------------|
| 801.A35   | Allantoin                    |
| 801.A48   | Amines                       |
| 801.A63   | Antibiotics                  |
| 801.A65   | Antimetabolites              |
| 801.A66   | Antioxidants                 |
| 801.A67   | Antivitamins                 |
| 801.A75   | Aromatic compounds           |
| 801.A84   | Aspartame                    |
| 801.B5    | Benzene                      |
| 801.B52   | Benzimidazoles               |
| 801.B53   | Benzodiazepines              |
| 801.B55   | Betaines                     |
| 801.B66   | Biogenic amines              |
| 801.B69   | Biopolymers                  |
| 801.C24   | Caffeine                     |
| 801.C27   | Cannabis                     |
| 801.C3    | Carbolic acid                |
| 801.C3115 | Carbolines                   |
| 801.C312  | Carboxylic acids             |
| 801.C33   | Catecholamines               |
| 801.C4    | Cerebrin                     |
| 801.C48   | Chlorophenols                |
| 801.C63   | Citrates                     |
| 801.C65   | Citric acid                  |
|           | Coca, see QP801.C68          |
| 801.C68   | Cocaine                      |
| 801.C69   | Colchicine                   |
| 801.C7    | Colicins                     |
| 801.C75   | Complex compounds            |
| 801.C8    | Creatine                     |
| 801.C83   | Crown ethers                 |
| 801.C86   | Cyclic adenylic acid         |
|           | Cynurenic acid, see QP801.K8 |
| 801.F45   | Flavor components            |
| 801.F5    | Fluorine organic compounds   |
| 801.F67   | Formaldehyde                 |
| 801.F87   | Furylbenzimidazole           |
| 801.G47   | Germanium organic compounds  |
| 801.G57   | Glutaric acid                |
| 801.G63   | Glycolic acid                |
| (801.G74) | Growth factors               |
|           | see QP552.G76                |
| 801.G8    | Guanidine                    |
| 801.G83   | Guanidino compounds          |
| 801.H34   | Halogen organic compounds    |
| 801.H45   | Hippuric acid                |
| 801.H5    | Histamine                    |
| 801.H78   | Hydrazines                   |

## Animal biochemistry

## Special substances

## Organic substances

Miscellaneous organic  
substances, A-Z -- Continued

- 801.H9 Hydrocarbons  
 801.I4 Indican (metabolic product)  
 801.I43 Indocyanine green  
 801.I45 Indole  
 Inositol, see QP772.I5  
 801.I48 Insecticides  
 Interleukins, see QR185.8.I56  
 801.I55 Ionophores  
 (801.I76) Isoprenoid compounds  
     see QP752.T47  
 801.K4 Ketones  
 801.K8 Kynurenic acid  
 801.L3 Lactic acid  
 Leucomaines, see QP801.P7  
 801.L47 Leukotrienes  
 801.L53 Lignans  
 801.L97 Lysergic acid diethylamide  
 Macromolecules, see QP801.P64  
 Marihuana, see QP801.C27  
 801.M37 Mercapto compounds. Thiols  
 801.M42 Methoxyhydroxyphenylglycol  
 801.M425 Methylxanthines  
 801.M43 Metiamide  
 801.M45 Mevalonic acid  
 Milk, Human, see QP246  
 801.N44 Neopterin  
 801.N48 Nicotine  
 801.N55 Nitrogen organic compounds  
 Organo ...  
     For compounds with names beginning "Organo..."  
     the Cutter number is determined by the  
     element or substance following this  
     prefix  
 801.O74 Orotic acid  
 801.O8 Oxalic acid  
 801.P28 Pantethine  
 801.P36 Penicillin  
 801.P374 Pentoxifylline  
 801.P38 Pesticides  
 801.P39 Phenethylamines  
 801.P4 Phenols  
 801.P56 Phosphonic acids  
 801.P63 Phosphorus organic compounds  
 801.P634 Phytic acid  
 801.P638 Polyamines  
 801.P639 Polycyclic aromatic hydrocarbons  
 801.P64 Polymers. Macromolecules  
 801.P643 Polyurethanes

## Animal biochemistry

## Special substances

## Organic substances

Miscellaneous organic  
substances, A-Z -- Continued

- 801.P654 PQQ  
 801.P68 Prostaglandins  
 801.P686 Psoralens  
 801.P69 Pteridines  
 801.P7 Ptomaines. Leucomaines  
 801.P8 Purines  
 801.P85 Pyrimidines  
 801.P855 Pyrrolizidines  
 801.P86 Pyruvic acid  
 801.Q5 Quinones  
 801.R4 Reductones  
 801.R47 Retinoids  
 801.S4 Serotonin  
 801.S44 Shikimic acid  
 801.S47 Sialic acid  
 801.S79 Succinic acid  
 801.S85 Sulphonic acids  
 801.T3 Taurine  
 Tetrahydrocannabinol, see QP801.C27  
 801.T4 Thiocyanates  
 Thiols, see QP801.M37  
 801.T57 Tobacco  
 801.T6 Tolylenediamine  
 801.U24 Ubiquinones  
 801.U7 Urea  
 Vitamins, see QP771 +  
 Xenobiotics

## Experimental pharmacology

The Library of Congress has not classed new material on experimental pharmacology in these numbers since approximately 1981.

For works on experimental pharmacology in general, see RM301.25

For works on experimental toxicology, see RA1199+

For works on the physiological effects of chemical substances on the animal body, see QP501+

(911-981)

## Individual chemical substances

see QP525-QP801, for the physiological effects of individual chemical substances on the animal body

For works on the physiological effects of drugs on the human body, see RM300+



- Microbiology
- 1 Periodicals, societies, congresses, serial collections, yearbooks
- 6 Collected works (nonserial)
- 9 Dictionaries and encyclopedias
- 11 Terminology, notation, abbreviations
- 12 Classification. Nomenclature  
Cf. QR81, Bacteria  
Cf. QR394, Viruses
- 13 Evolution  
History
- 21 General works
- 22.A-Z By region or country, A-Z
- Biography
- 30 Collective
- 31.A-Z Individual, A-Z  
e.g.  
31.F5 Fleming, Alexander  
31.K6 Koch, Robert  
Pasteur, Louis, see Q143.P2
- General works, treatises, and textbooks
- 41 Through 1969
- 41.2 1970-
- By discipline
- 46 Medical microbiology  
Cf. QR67+, Diagnostic technique  
Cf. QR171.A1+, Microorganisms in the animal body  
Cf. RC109+, Infections and parasitic diseases
- 46.5 Pharmaceutical microbiology
- 47 Dental microbiology  
Cf. RK325, Oral sepsis
- 48 Sanitary microbiology  
Cf. QR105+, Aquatic microbiology  
Cf. TD1+, Sanitary engineering  
Veterinary microbiology, see SF780.2
- 51 Agricultural microbiology  
Cf. QR111+, Soil microbiology  
Cf. QR121, Dairy microbiology  
Cf. QR351, Microorganisms of plant diseases  
Geomicrobiology, see QR103  
Industrial microbiology  
Cf. QR115+, Food microbiology  
Cf. QR135+, Microbial degradation  
Cf. QR151+, Microorganisms of fermentation  
Cf. TP248.27.M53, Microbial biotechnology
- 53 General works, treatises, and textbooks
- 53.5.A-Z By industry or products, etc., A-Z
- 53.5.A44 Alloys
- 53.5.C73 Coal
- 53.5.C76 Cosmetics
- 53.5.P48 Petroleum
- 54 Pictorial works and atlases

- 56 Popular works  
 57 Juvenile works  
 58 Addresses, essays, lectures  
 60 Special aspects of the subject as a whole  
 Study and teaching. Research  
 61 General works  
 61.5 Problems, exercises, examinations  
 61.7 Experiments  
 62 Outlines, syllabi  
 63 Laboratory manuals  
 Laboratories  
 Cf. R108, Medical laboratories  
 64.A1 General works  
 64.A3-Z By region or country, A-Z  
*Under each country:*  
 .x *General works*  
 .x2A-.x2Z *Individual laboratories. By name, A-Z*  
 64.5 Culture collections  
 64.7 Safety measures  
 64.8 Quality control  
 Technique  
 65 General works  
 Culture technique  
 66 General works  
 66.3 Culture media  
 66.4 Continuous culture  
 Diagnostic technique  
 67 General works  
 67.2 Diagnostic bacteriology  
 Microscope technique  
 Cf. QH201+, Microscopy  
 68 General works  
 68.5.A-Z Special, A-Z  
 68.5.E45 Electron microscopy  
 69.A-Z Special topics, A-Z  
 69.A56 Anti-infective agent testing  
 69.A57 Antibiotic testing  
 Antiinfective agent testing, see QR69.A56  
 69.A88 Automation  
 69.B53 Bioluminescence assay  
 69.C3 Cataphoresis  
 69.D35 Data processing  
 69.D48 Disintegration  
 69.D54 DNA probes  
 69.E43 Electric impedance measurement  
 69.E58 Enzyme-linked immunosorbent assay  
 69.F56 Flow cytometry  
 69.F7 Freeze-drying. Drying  
 69.G27 Gas chromatography  
 69.H54 High performance liquid chromatography  
 69.M33 Mass spectrometry  
 69.M48 Microbiological assay  
 69.M5 Micrurgy

- Technique
- Special topics, A-Z -- Continued
  - 69.P6 Population counts
  - 69.S7 Staining
  - 69.S75 Sterilization
  - 69.V53 Viability counts
- 71 Laboratory equipment
- 72 Statistical methods
- 72.5 Handbooks, manuals, etc.
- Microbial genetics, see QH434
- 73 Diversity and variation
  - Cf. QR392, Virus variation
- 73.4 Development
- 73.5 Differentiation
- 73.6 Aggregation
- 73.7 Cell cycle
- 73.8 Microbial populations
- 74 Molecular microbiology
- 74.5 Protista
  - Cf. QK564 +, Algae
  - Cf. QK600 +, Fungi
  - Cf. QK635.A1 +, Slime molds
  - Cf. QL366 +, Protozoa
- Bacteria
  - Morphology. Ultrastructure
    - 75 General works
    - 75.3 Size
    - 75.5 Shape
    - 76 Protoplasm
    - 76.3 Protoplasts
    - 76.5 Nuclear materials
    - 76.6 Plasmids
    - 76.7 Pigments
    - 77 Cell membranes
    - Cell walls
      - 77.3 General works
      - 77.35 Cell surfaces
      - 77.5 Capsules. Slime layers
      - 78 Flagellae
      - 78.5 Pili
      - 79 Spores
      - 79.5 Colonies
  - 80 Terminology, notation, abbreviations
  - 81 Classification. Nomenclature
  - 81.5 Catalogs and collections
  - 81.7 Evolution
  - 82.A-Z Systematic divisions. By family or higher taxa, A-Z
    - Class individual genera under the family.
    - For bacteria of specific diseases, see QR201.A +
    - For unassigned genera and species, see QR82.Z9
  - 82.A3 Achromatiaceae
  - 82.A35 Actinomycetaceae
  - 82.A355 Actinoplanaceae

## Systematic divisions.

By family or higher taxa, A-Z -- Continued

- 82.A69 Archaeobacteria
- 82.A9 Azotobacteraceae
- 82.B3 Bacillaceae
- 82.B35 Bacteroidaceae
- 82.B4 Beggiatoaceae
- 82.B95 Brucellaceae
- 82.C35 Chlamydo bacteriaceae
- 82.C4 Chlorobiaceae
- 82.C45 Chromatiaceae
- 82.C6 Corynebacteriaceae
- 82.C88 Cystobacteraceae
- 82.C9 Cytophagaceae
- 82.D4 Dermatophilaceae
- 82.E6 Enterobacteriaceae
- 82.F7 Frankiaceae
- 82.L3 Lactobacillaceae
- 82.L4 Leucotrichaceae
- 82.M4 Methylo monadaceae
- 82.M5 Micrococcaceae
- 82.M55 Micromonosporaceae
- 82.M8 Mycobacteriaceae
- 82.M95 Myxococcaceae
- 82.N4 Neisseriaceae
- 82.N5 Nitrobacteraceae
- 82.N6 Nocardiaceae
- 82.P44 Pelonemataceae
- 82.P45 Peloplocaceae
- 82.P47 Peptococcaceae
- 82.P6 Polyangiaceae
- 82.P7 Propionibacteriaceae
- 82.P78 Pseudomonadaceae
- 82.R45 Rhizobiaceae
- 82.R46 Rhodospirillaceae
- 82.R47 Rhodospirillales
- 82.S5 Simonsiellaceae
- 82.S6 Spirillaceae
- 82.S7 Spirochaetaceae
- 82.S78 Streptococcaceae
- 82.S8 Streptomycetaceae
- 82.T7 Treponemataceae
- 82.V4 Veillonellaceae
- 82.Z9 Genera and species as yet unassigned (not A-Z)
- 84 Physiology
  - General works
  - Growth
    - Cf. QR66+, Culture technique
- 84.5 General works
- 84.7 Psychrophilic bacteria
- 84.8 Thermophilic bacteria
- 86 Nutrition
- 86.5 Reproduction

## Bacteria

## Physiology -- Continued

## Metabolism

- 88 General works  
 88.2 Autotrophy  
 88.3 Biosynthesis  
 88.4 Methylophony  
 88.5 Photosynthesis  
     Cf. QK882, Plant physiology  
 88.7 Chemoautotrophy  
 Respiration  
 89 General works  
 89.5 Anaerobic  
 89.7 Nitrogen fixation  
     Cf. TP245.N8, Chemical engineering
- 90 Enzymes  
 92.A-Z Other substances, A-Z  
 92.A3 Acetic acid  
 92.A49 Alkanes  
 92.A6 Amino acids  
 92.B3 Bacteriocins  
 92.B7 Branched chain amino acids  
 92.C27 Calcium  
 92.C3 Carbohydrates  
 92.C33 Carbon dioxide  
 92.C55 Chlorinated aromatic compounds  
 92.C57 Citric acid  
 92.C74 Creatine  
 92.D45 Deoxyribonucleic acid. DNA  
     DNA, see QR92.D45  
 92.F3 Fatty acids  
 92.F87 Furans  
 92.G35 Galactose  
 92.G5 Glucose  
 92.H6 Hormones  
 92.H8 Hydrogen  
 92.I4 Immunoglobulin-binding proteins  
 92.I7 Iron  
 92.L5 Lipids  
 92.M45 Metals  
 92.M46 Methane  
 92.M47 Methyl groups  
 92.M5 Minerals  
 92.N5 Nicotinic acid  
 92.N6 Nitrogen  
 92.N8 Nucleic acids  
 92.N82 Nucleotides  
     Oxygen, see QR89 +  
 92.P37 Peptides  
 92.P39 Peptidoglycans  
 92.P4 Phenols  
 92.P45 Phosphates  
 92.P58 Poly-beta-hydroxyalkanoates

## Bacteria

## Physiology

## Metabolism

## Other substances, A-Z -- Continued

- 92.P59 Polymers
- 92.P6 Polysaccharides
- 92.P7 Propionic acid
- 92.P75 Protein A, Staphylococcal, see QR92.S68
- 92.P87 Proteins
- 92.S3 Purines
- 92.S53 Salts
- 92.S68 Siderophores
- 92.S7 Staphylococcal protein A
- 92.S79 Steroids
- 92.S8 Sugars
- 92.V5 Sulphur
- 92.X35 Vitamins
- 93 Xanthan gum
- 94 Anhydrobiosis
- 95 Heat production
- 96 Light production
- 96.5 Motility. Irritability
- 96.8 Interactions. Communication
- Adhesion
- Environmental factors
  - General works
  - By factor, A-Z
    - Acidity
    - Anti-infective agents
    - Antibiotics
    - Bactericides
    - Carbon dioxide
    - Chemicals
    - Electrolytes
    - Heat
    - Light
    - Moisture
      - see QR97.W37
    - Oxygen
    - Pesticides
    - Pressure
    - Radiation
    - Salinity
    - Temperature
      - Cf. QR84.7, Psychrophilic bacteria
      - Cf. QR84.8, Thermophilic bacteria
    - Water. Moisture
    - Xenobiotics
- 97.A1
- 97.A2-Z
- 97.A3
- 97.A57
- 97.A58
- 97.B32
- 97.C3
- 97.C5
- 97.E5
- 97.H4
- 97.L5
- (97.M6)
- 97.O8
- 97.P47
- 97.P7
- 97.R3
- 97.S3
- 97.T4
- 97.W37
- 97.X46

## Bacteria -- Continued

## Antibiosis

- Cf. QP801.A63, Biochemistry of antibiotics
- Cf. QR69.A57, Testing
- Cf. QR175, Virulence
- Cf. RM265+, Antibiotic therapy
- Cf. RM666.A+, Pharmacology of individual antibiotic drugs
- Cf. RS431.A6, Pharmaceutical chemistry of antibiotics

- 99 General works
- 99.5 Resistance
- Cyanobacteria
- 99.6 Periodicals, societies, serial collections
- 99.62 Congresses
- 99.63 General works, treatises, and textbooks
- 99.64 Pictorial works and atlases
- 99.65 Popular works
- 99.66 Juvenile works
- 99.67 Classification. Nomenclature
- 99.7.A-Z Systematic divisions. By family, A-Z
- 99.7.N67 Nostocaceae
- 99.7.O82 Oscillatoriaceae
- 99.7.S39 Scytonemataceae
- 99.7.S85 Stigonemataceae
- 99.8.A-Z By region or country, A-Z
- Microbial ecology
- 100 General works, treatises, and textbooks
- 100.8.A-Z By type of relationship, A-Z
- 100.8.B55 Biofilms
- 100.8.C65 Competition
- 100.8.M37 Mats
- 100.8.S9 Symbiosis
- By type of environment
- 100.9 Extreme environments (General)
- 101 Air and dust
- 103 Geomicrobiology. Microbial effect on geological processes
- Water. Aquatic microbiology
- 105 General works
- 105.5 Freshwater
  - Cf. TD384, Water supply analysis
- Seawater. Marine microbiology
- 106 General works
- 106.5 Hydrothermal vents
- 107 Hot springs. Calderas
- Soil
- Cf. QK604.2.M92, Mycorrhizal fungi
- 111 General works
- 113 Root nodules
  - Cf. S652, Soil inoculation

- Microbial ecology  
 By type of environment -- Continued
- Foods  
 Cf. TP371.2+, Preservation in food processing  
 Cf. TX599+, Food preservation in the home
- 115 General works  
 116 Eggs  
 117 Meat  
 118 Fish. Shellfish  
 119 Breads. Cereals  
 121 Dairy products  
 Cf. SF253, Milk analysis
- 123 Canned food  
 129.A-Z Other food products, A-Z  
 129.B44 Beer  
 129.C6 Corn oil  
 129.F7 Fruit juice  
 129.S8 Sugar  
 129.T65 Tomatoes  
 130 Space microbiology
- Pathogenic fungi, see QR245+  
 Microbial degradation
- 135 General works  
 135.5.A-Z Special substances, A-Z  
 135.5.M37 Metals  
 148 Microbiological chemistry  
 Cf. QK861+, Plant biochemistry  
 Cf. QP501+, Animal biochemistry  
 Cf. QR88.3, Bacterial biosynthesis  
 Cf. QR467, Biochemistry of viruses
- Microorganisms of fermentation. Yeasts, etc.  
 Including diseases of wine and beer  
 Cf. TP371.44, Preserving food by fermentation  
 Cf. TP568+, Brewing
- 151 General works  
 (155) Yeasts and yeastlike fungi in the body  
 see QR171
- 160 Microorganisms of cellulose and other plant products  
 Microorganisms in the animal body  
 Cf. QR201.A+, Pathogenic microorganisms  
 Cf. QR245+, Pathogenic fungi  
 Cf. QR301+, Pathogenic fungi
- 171.A1 General works, treatises, and textbooks  
 171.A2-Z By organ or system, etc., A-Z  
 171.A43 Alimentary canal  
 171.B5 Blood  
 171.E9 Eye  
 171.F4 Feces  
 171.F45 Female generative organs  
 171.G29 Gastrointestinal system  
 171.G4 Generative organs  
 Generative organs, Female, see QR171.F45  
 171.G47 Germplasm



- Microorganisms in the animal body  
 By organ or system, etc., A-Z -- Continued
- 171.I6 Intestines  
 171.L8 Lungs  
 Mouth, see QR47  
 171.N3 Nasopharyngeal system  
 171.R85 Rumen  
 171.S5 Skin  
 171.S8 Stomach  
 Teeth, see QR47  
 171.U7 Urinary system  
 175 Virulence. Pathogenic action in general  
 Cf. QP631+, Toxins (Animal biochemistry)
- 177 Drug resistance  
 Immunology  
 Cf. QL362.85, Invertebrates  
 Cf. QL638.97, Fishes  
 Cf. QP252.5, Reproductive immunology  
 Cf. QP356.47, Neuroimmunology  
 Cf. RA638, Public health  
 Cf. RC581+, Immunologic diseases  
 Cf. RG557, Obstetrics  
 Cf. RM270+, Immunotherapy  
 Cf. RM370+, Immunopharmacology  
 Cf. SF757.2+, Veterinary immunology
- 180 Periodicals, societies, serial collections, yearbooks  
 180.2 Collected works (nonserial)  
 180.3 Congresses  
 180.4 Dictionaries and encyclopedias  
 Biography  
 180.7 Collective  
 180.72.A-Z Individual, A-Z  
 181 General works, treatises, and textbooks  
 181.5 Addresses, essays, lectures  
 181.7 Popular works  
 181.8 Juvenile works  
 182 Special aspects of the subject as a whole  
 182.2.A-Z Special topics, A-Z  
 182.2.A54 Animal models  
 Including specific animal models  
 182.2.C65 Computer simulation  
 182.2.E94 Evolution  
 182.2.M36 Mathematical models  
 Space flight, see RC1151.I45  
 182.2.S7 Statistical methods
- Study and teaching. Research  
 182.5 General works  
 182.55 Outlines, syllabi  
 182.6 Problems, exercises, examinations  
 Laboratory methods  
 For specific tests, see QR187.A2+  
 183 General works  
 183.2 Tracers

- Immunology -- Continued
- 183.6 Immunochemistry  
Cf. QR187.I45, Immunocytochemistry
- 183.8 Immunotaxonomy
- Immunogenetics
- 184 General works
- 184.2 Human immunogenetics
- Histocompatibility. H-2 locus
- 184.3 General works
- 184.315 Major histocompatibility complex
- 184.32 HLA antigens
- 184.35 H-Y antigen
- 184.4 Ir genes. Ia antigens
- 184.5 Developmental immunology
- 184.6 Phylogeny of the immune system
- Types of immunity
- 185.2 Natural
- Acquired
- 185.3 General works
- 185.33 Maternally acquired immunity
- 185.35 Immunologic memory
- 185.4 Humoral
- 185.5 Cellular
- 185.6 Molecular aspects. Molecular immunology
- Immune structures
- 185.7 General works
- 185.8.A-Z By type, A-Z
- Antibody-drug conjugates, see RS201.A56
- 185.8.A58 Antibody-toxin conjugates
- 185.8.A59 Antigen presenting cells
- 185.8.B15 B cells
- 185.8.B54 Biological response modifiers
- 185.8.C45 Chemokines
- 185.8.C6 Complement  
Cf. QR187.C6, Complement fixation
- 185.8.C95 Cytokines
- 185.8.D45 Dendritic cells
- 185.8.E58 Eosinophils  
Cf. QP95.3, Physiology
- 185.8.F33 Fc receptors
- 185.8.G4 Germinal centers
- 185.8.G73 Granulocytes  
Cf. QP95.4, Physiology
- 185.8.H93 Hybridomas  
Cf. QH451, Cell fusion
- 185.8.I45 Immune complexes
- 185.8.I56 Interleukins  
Including interleukin-1, interleukin-2, etc.
- 185.8.K54 Killer cells
- 185.8.L35 Langerhans cells
- 185.8.L48 Leucocytes  
Cf. QP95 +, Physiology
- 185.8.L49 Leukolysins

## Immunology

## Immune structures

## By type, A-Z -- Continued

- 185.8.L9 Lymphocytes  
 185.8.L93 Lymphokines  
 185.8.M3 Macrophages  
 185.8.M35 Mast cells  
 185.8.M36 Mathematical models  
 185.8.N47 Neutrophils  
 185.8.O7 Opsonin  
     Cf. QR187.P4, Phagocytosis  
 185.8.P45 Phagocytes  
     Cf. QR187.P4, Phagocytosis  
 185.8.P58 Platelets  
     Cf. QP97 +, Physiology  
 185.8.S65 Spleen  
 185.8.S96 Suppressor cells  
 185.8.T2 T cells  
 185.8.T48 Thrombocytes, see QR185.8.P58  
 185.8.T67 Thymus  
     Transfer factor  
     Cf. RM282.T7, Therapeutic use

- 185.8.T7 Trophoblast  
 185.8.T84 Tumor necrosis factor  
 185.9.A-Z By organ or system, etc., A-Z  
 185.9.G37 Gastrointestinal system  
 185.9.L58 Liver  
 185.9.M83 Mucous membrane  
 185.95 Immune recognition

## Immune response

Class here works on the mechanism of immune response in humans or laboratory animals

For works on the immunology of specific animals or groups of animals, other than laboratory animals, see the systematic divisions in QL.

For works on the immune response to particular diseases or parasites, see the disease or parasite in R or SF

- 186 General works  
 186.3 Idiotypic networks

## Antigens

- 186.5 General works  
 186.6.A-Z By type, A-Z  
 186.6.B33 Bacterial antigens  
 186.6.C37 Blood group antigens, see QP98  
 186.6.C42 Carbohydrates  
 186.6.C44 CD antigens  
     Including CD23 antigen, CD26 antigen, etc.  
 186.6.F85 Cell surface antigens  
 186.6.G73 Fungal antigens  
 186.6.H3 Granulocyte antigens  
     H-Y antigen, see QR184.35  
     Haptens

- Immunology
- Antigens
- By type, A-Z -- Continued
- 186.6.H42 Heat shock proteins  
Histocompatibility antigens, see QR184.3+  
HLA antigens, see QR184.32
- 186.6.L94 Lysozyme
- 186.6.P38 Parasite antigens
- 186.6.P76 Proteins
- 186.6.S64 Spermatozoa
- 186.6.S94 Superantigens
- 186.6.S95 Synthetic antigens
- 186.6.T48 Thy-1 antigen
- 186.6.T57 Tissue-specific antigens
- 186.6.T6 Toxins
- 186.6.T65 Toxoids
- 186.6.V57 Tumor antigens, see QR188.6  
Viral antigens
- Antibodies. Immunoglobulins
- General works
- By type, A-Z
- 186.7 IgA. Immunoglobulin A
- 186.8.A-Z IgD. Immunoglobulin D
- 186.8.A2 IgE. Immunoglobulin E
- 186.8.D2 IgG. Immunoglobulin G
- 186.8.E2 IgM. Immunoglobulin M
- 186.8.G2 Autoantibodies
- 186.8.M2 General works
- 186.82 By type, A-Z
- 186.83.A-Z Phospholipid antibodies
- 186.83.P48 Rheumatoid factor
- 186.83.R48 Monoclonal antibodies
- 186.85 Cf. RM282.M65, Therapeutic use
- 186.9 Specificity
- Antigen-antibody reactions
- Class tests with type of reaction
- General works, treatises, and textbooks
- By type, A-Z
- 187.A1 Agglutination
- 187.A2-Z Autolysis
- 187.A3 Bacteriolysis
- 187.A8 Chemiluminescence immunoassay
- 187.B3 Complement fixation
- 187.C48 Conglutination
- 187.C6 Danysz phenomenon
- 187.C65 Fluorescent antigen technique
- 187.D3 Hemagglutination tests
- 187.F58 Hemolysis
- 187.H38 Hemolytic plaque technique
- 187.H4 Histocompatibility testing
- 187.H45 Immunoabsorption
- 187.H57 Immunocytochemistry
- 187.I44 Immunodiffusion
- 187.I45
- 187.I46

## Immunology

## Antigen-antibody reactions

## By type, A-Z -- Continued

- 187.I47           Immunoelectrophoresis
- 187.I48           Immunofluorescence
- 187.I482          Immunogold labeling
- 187.I486          Immunophenotyping
- 187.L47          Leucocyte adherence inhibition test
- 187.P4            Phagocytosis
- 187.P7            Precipitation
- 187.S4            Sedimentation
- 187.3            Adjuvants
- 187.4            Chemotaxis
- 187.5            Interferons
- 188              Hypersensitivity. Allergy
  - Cf. RC583 +, Diseases
- 188.3            Autoimmunity
  - Cf. RC600, Autoimmune diseases
  - For autoantibodies, see QR186.82 +
- 188.35           Immunodeficiency
  - Cf. RC606 +, Medicine
  - Cf. RJ387.D42, Pediatrics
- 188.4            Tolerance
- Immunosuppression
  - General works
  - Virus-induced immunosuppression
- 188.45           General works
- 188.46           Virus-induced immunosuppression
- 188.5            Radiation immunology
- 188.6            Tumor immunology
  - Cf. RC268.3, Immunological aspects
- 188.8            Transplantation immunology
  - Cf. QP89, Physiology of the tissues
  - Cf. RD120.6 +, Surgery
- Vaccines
  - Cf. RA638, Vaccination in public health
  - Cf. RM281, Vaccinotherapy
- 189              General works, treatises, and textbooks
- 189.2            Synthetic vaccines
  - By disease or type, A-Z
    - AIDS (Disease)
    - Anti-idiotypic
    - Bacterial diseases
    - BGC vaccine, see QR189.5.T72
    - DNA vaccines
    - Encephalitis
    - Enterobacterial vaccines
    - Hepatitis
    - Herpesvirus disease
    - Influenza
    - Malaria
    - Measles
    - Newcastle disease
    - Pertussis
    - Pneumococcal infections
- 189.5.A-Z        By disease or type, A-Z
- 189.5.A33        AIDS (Disease)
- 189.5.A56        Anti-idiotypic
- 189.5.B33        Bacterial diseases
- 189.5.D53        BGC vaccine, see QR189.5.T72
- 189.5.E5         DNA vaccines
- 189.5.E53        Encephalitis
- 189.5.H46        Enterobacterial vaccines
- 189.5.H48        Hepatitis
- 189.5.I5         Herpesvirus disease
- 189.5.M34        Influenza
- 189.5.M4         Malaria
- 189.5.N48        Measles
- 189.5.P46        Newcastle disease
- 189.5.P58        Pertussis
- Pneumococcal infections

## Immunology

## Vaccines

## By disease or type, A-Z -- Continued

- 189.5.P6 Poliomyelitis  
 189.5.P76 Protozoan diseases  
 189.5.R3 Rabies  
 189.5.R8 Rubella  
 189.5.S48 Sexually transmitted diseases  
 189.5.S6 Smallpox  
 Tuberculosis  
 General works  
 BCG vaccine  
 Typhoid  
 Virus diseases
- Pathogenic microorganisms. By disease, A-Z
- 201.A-Z  
 201.A16 Acinetobacter infections  
 201.A2 Actinomycosis  
 201.A27 Adenovirus diseases  
 201.A3 Adiaspiromycosis  
 201.A35 African swine fever  
 201.A37 AIDS (Disease). HIV infections  
 201.A55 Amebiasis  
 201.A57 Anaerobic infections  
 201.A6 Anthrax  
 201.A72 Arbovirus infections  
 201.A74 Arenavirus diseases  
 201.B318 Babesiosis  
 201.B32 Bacteremia  
 201.B34 Bacterial diseases  
 201.B55 Blastomycosis  
 Borreliosis, see QR201.R45  
 Botulism  
 Brucellosis. Undulant fever  
 Campylobacter infections  
 Campylobacter pylori infections  
 see QR201.H44  
 Cancer, see QR201.T84  
 Candidiasis  
 201.C27  
 201.C29 Chagas' disease  
 201.C47 Chlamydia infections  
 201.C5 Cholera  
 201.C54 Clostridium diseases  
 201.C58 Coccidioidomycosis  
 201.C59 Coccidiosis  
 201.C6 Conjunctivitis  
 201.C65 Coxsackievirus infections  
 201.C9 Cystitis  
 201.C94 Cytomegalovirus infections  
 201.D4 Diarrhea  
 Diarrhea, Viral, see QR201.V53  
 201.D5 Diphtheria  
 201.D6 Diphtheroid organisms  
 201.D9 Dysentery. Bacillary dysentery

- Pathogenic microorganisms.
- By disease, A-Z -- Continued
- 201.E2 Edema, Malignant
- 201.E45 Erlichiosis
- 201.E6 Endocarditis, Bacterial
- 201.E75 Epstein-Barr virus diseases
- 201.E82 Escherichia coli infections
- 201.F6 Food poisoning
  - Cf. QR201.B7, Botulism
- 201.F62 Foodborne diseases
- 201.F63 Foot-and-mouth disease
- 201.G45 Giardiasis
- 201.G5 Glanders
- 201.G7 Gonorrhoea
- 201.H44 Helicobacter pylori infections
- 201.H46 Hepatitis, Viral
- 201.H48 Herpesvirus infections
- HIV infections, see QR201.A37
- 201.H7 Hog cholera
- 201.H86 HTLV infections
- 201.I6 Influenza
- Jaundice, see QR201.L6
- 201.L44 Legionnaires' disease
- 201.L5 Leprosy
- 201.L6 Leptospirosis. Jaundice
- 201.L64 Leukemia
- 201.L7 Listeriosis
- 201.L9 Lymphocytic choriomeningitis
- 201.M3 Malaria
- Malignant edema, see QR201.E2
- 201.M4 Mastitis
- 201.M43 Measles
- 201.M6 Meningitis
- 201.M96 Mycobacterial diseases
- 201.M97 Mycoplasma diseases
- 201.M98 Mycotoxicoses
- 201.N4 Necrosis
- 201.N45 Neisseria infections
- 201.N5 Newcastle disease
- 201.O6 Oidiomycosis
- 201.O8 Osteomyelitis
- 201.P26 Papillomavirus diseases
- 201.P27 Parasitic diseases
- 201.P28 Paratuberculosis
- 201.P3 Paratyphoid fever
- 201.P33 Parvovirus infections
- 201.P4 Peritonitis
- 201.P45 Picornavirus infections
- 201.P5 Plague
- 201.P7 Pneumococcal pneumonia
- 201.P73 Poliomyelitis
- 201.P733 Porphyromonas gingivalis infections
- 201.P737 Prion diseases

## Pathogenic microorganisms.

By disease, A-Z -- Continued

- 201.P74 Pseudomonas aeruginosa infections  
 201.P75 Pseudotuberculosis  
 201.P8 Psittacosis  
 201.Q2 Q fever  
 201.R3 Rabies  
 201.R45 Relapsing fever. Borreliosis  
 201.R47 Retrovirus infections  
 201.R5 Rheumatic fever  
 201.R53 Rheumatism  
 201.R59 Rickettsial diseases  
 Rocky Mountain spotted fever, see QR201.S65  
 201.S25 Salmonellosis  
 201.S27 Sarcocystosis  
 201.S3 Scarletina  
 201.S35 Schistosomiasis  
 201.S47 Serratia diseases  
 201.S5 Shigellosis  
 201.S6 Smallpox  
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 201.Y45 Yersinia infections

## Medical mycology. Pathogenic fungi

Class here general works only

Cf. RC117.A+, Mycotic diseases

Cf. SB733, Fungus diseases of plants

Cf. SF780.7, Veterinary mycology

For particular fungi, see QK621+

245

General works

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Diagnostic mycology



- Medical parasitology
  - Class here general works only
  - Cf. QR201.P27, Parasitic diseases
  - Cf. RC118+, Spirochetal and protozoan diseases
  - Cf. SF781+, Veterinary medicine
  - For particular protozoa, see QL368.A115+
  - For pathogenic microorganisms, see QR201.A+
- 251 General works
- 255 Diagnostic parasitology
- Microorganisms of animals
  - Cf. QR171.A1+, Microorganisms in the animal body
  - Cf. SF951+, Diseases of special classes of animals
- 301 General works
- Vertebrates
  - For domestic animals, see SF780.2
- 302 General works
- Humans, see QR46
- 303 Mammals
- 311 Birds
- 314 Amphibians
- 315 Reptiles
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  - Cf. SF458.5, Aquarium fish diseases
  - Cf. SH171+, Diseases and pests of fish
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- 340 General works
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  - fd
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- 342 Fungal viruses
- 343 Fungal viruses
- 351 Microorganisms of plants
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- Virology  
 Cf. QR201.V55, Virus diseases  
 Cf. SF780.4, Veterinary virology  
 Cf. TD427.V55, Viral pollution of water
- 355 Periodicals, societies, congresses, serial collections, yearbooks
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- 372.M32 Oncogenic DNA viruses
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 Cf. QR201.T84, Tumors
- 372.O6 Study and teaching. Research
- 375 General works
- 376 Laboratory manuals
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- 383 Technique  
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- 387.5 Counting and measuring
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- 392 Variation  
 Cf. QH434, Microbial genetics
- 393 Terminology, notation, abbreviations
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- 394.5 DNA viruses  
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| 452      | Shape                                   |
| 453      | Capsid                                  |
| 454      | Envelope                                |
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| 478.T4   | Temperature                             |
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| 482      | Virus-host interaction                  |
| 484      | Virus-vector interaction                |
| 500      | Viroids                                 |
| 502      | Prions                                  |

|      |                          |
|------|--------------------------|
| .A2  | Ac Actinium              |
| .A3  | Ag Silver (Argentum)     |
|      | Alabamine, see .A8       |
| .A4  | Al Aluminum              |
| .A5  | Am Americium             |
|      | Antimony, see .S3        |
|      | Argentum, see .A3        |
| .A6  | Ar Argon                 |
| .A7  | As Arsenic               |
| .A8  | At Astatine (Alabamine)  |
| .A9  | Au Gold (Aurum)          |
| .B1  | B Boron                  |
| .B2  | Ba Barium                |
| .B4  | Be Beryllium (Glucinum)  |
| .B5  | Bi Bismuth               |
| .B55 | Bk Berkelium             |
| .B7  | Br Bromine               |
| .C1  | C Carbon                 |
| .C2  | Ca Calcium               |
| .C3  | Cd Cadmium               |
|      | Cassiopeium, see .L8     |
|      | Celtium, see .H5         |
| .C4  | Ce Cerium                |
| .C45 | Cf Californium           |
| .C5  | Cl Chlorine              |
| .C55 | Cm Curium                |
| .C6  | Co Cobalt                |
| .C7  | Cr Chromium              |
| .C8  | Cs Cesium                |
|      | Columbium, see .N3       |
| .C9  | Cu Copper (Cuprum)       |
|      | Didymium, see .N4        |
| .D8  | Dy Dysprosium            |
| .E6  | Er Erbium                |
| .E7  | Es Einsteinium           |
| .E8  | Eu Europium              |
| .F1  | F Fluorine               |
| .F4  | Fe Iron (Ferrum)         |
| .F5  | Fm Fermium               |
|      | Ferrum, see .F4          |
| .F7  | Fr Francium              |
| .G2  | Ga Gallium               |
| .G4  | Gd Gadolinium            |
| .G5  | Ge Germanium             |
|      | Glucinum, see .B4        |
|      | Gold, see .A9            |
| .H1  | H Hydrogen               |
| .H4  | He Helium                |
| .H5  | Hf Hafnium (Celtium)     |
| .H6  | Hg Mercury (Hydrargyrum) |
| .H7  | Ho Holmium               |
|      | Hydrargyrum, see .H6     |
| .I1  | I Iodine                 |

|      |                           |
|------|---------------------------|
|      | Illinium, see .P5         |
| .I5  | In Indium                 |
| .I7  | Ir Iridium                |
|      | Iron, see .F4             |
| .K1  | K Potassium (Kalium)      |
| .K6  | Kr Krypton                |
| .L2  | La Lanthanum              |
|      | Lead, see .P3             |
| .L5  | Li Lithium                |
| .L8  | Lu Lutetium (Cassiopeium) |
| .L9  | Lw Lawrencium             |
| .M3  | Md Mendeleevium           |
| .M4  | Mg Magnesium              |
| .M6  | Mn Manganese              |
|      | Mercury, see .H6          |
| .M7  | Mo Molybdenum             |
|      | Natrium, see .N2          |
| .N1  | N Nitrogen                |
| .N2  | Na Sodium (Natrium)       |
| .N3  | Nb Niobium (Columbium)    |
| .N4  | Nd Neodymium (Didymium)   |
| .N5  | Ne Neon                   |
| .N6  | Ni Nickel                 |
|      | Niton, see .R6            |
| .N65 | No Nobelium               |
| .N7  | Np Neptunium              |
| .O1  | O Oxygen                  |
| .O7  | Os Osmium                 |
| .P1  | P Phosphorus              |
| .P2  | Pa Protactinium           |
| .P3  | Pb Lead (Plumbum)         |
| .P4  | Pd Palladium              |
|      | Plumbum, see .P3          |
| .P5  | Pm Promethium (Illinium)  |
| .P6  | Po Polonium               |
|      | Potassium, see .K1        |
| .P7  | Pr Praseodymium           |
| .P8  | Pt Platinum               |
| .P9  | Pu Plutonium              |
| .R1  | Ra Radium                 |
| .R3  | Rb Rubidium               |
| .R4  | Re Rhenium                |
| .R5  | Rh Rhodium                |
| .R6  | Rn Radon (Niton)          |
| .R9  | Ru Ruthenium              |
| .S1  | S Sulphur                 |
| .S3  | Sb Antimony (Stibium)     |
| .S4  | Sc Scandium               |
| .S5  | Se Selenium               |
| .S6  | Si Silicon                |
|      | Silver, see .A3           |
| .S65 | Sm Samarium               |
| .S7  | Sn Tin (Stannum)          |

|      |                      |
|------|----------------------|
|      | Sodium, see .N2      |
|      | Stannum, see .S7     |
|      | Stibium, see .S3     |
| .S8  | Sr Strontium         |
| .T2  | Ta Tantalum          |
| .T3  | Tb Terbium           |
| .T35 | Tc Technetium        |
| .T4  | Te Tellurium         |
| .T5  | Th Thorium           |
|      | Tin, see .S7         |
| .T6  | Ti Titanium          |
| .T7  | Tl Thallium          |
| .T8  | Tm Thulium           |
|      | Tungsten, see .W1    |
| .U7  | U Uranium            |
| .V2  | V Vanadium           |
| .W1  | W Tungsten (Wolfram) |
| .X4  | Xe Xenon             |
| .Y1  | Y Yttrium            |
| .Y3  | Yb Ytterbium         |
| .Z6  | Zn Zinc              |
| .Z7  | Zr Zirconium         |

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| (.x29) | Instrumentation<br>see QC785.5-QC787 |



.A1

General works

.A3-.Z

- By region, country, or island, A-Z
- Offshore islands generally class with adjacent mainland



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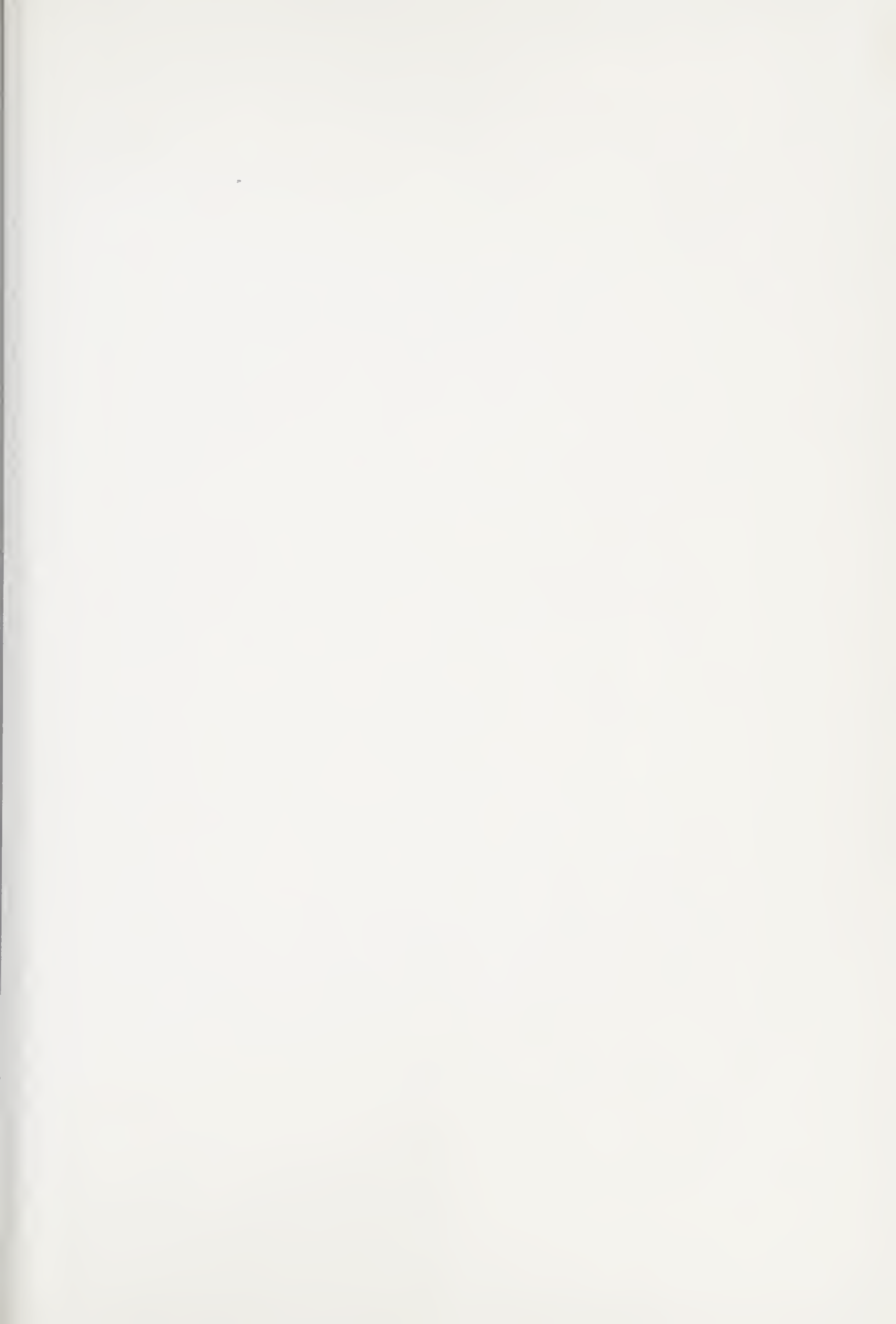
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